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THE
ASIATIC SOCIETY OF BOMBAY
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ADMINISTRATION REPORT

OF THE

MUNICIPAL COMMISSIONER

FOR THE

CITY OF BOMBAY

FOR THE YEAR 1915-16.

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BOMBAY:
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Review by the Standing Committee of the Administration Report of the Municipal Commissioner for the City of Bombay for the year 1915-16.

Corporation and Standing Committee.

Mr. Phiroze C. Sethna was President of the Corporation, and Mr. Narayan Vishvanath Mandlik, B.A., LL.B., Chairman of the Standing Committee, for the year.

2. 62 Meetings were held by the Corporation and 55 by the Standing Committee, including three special meetings. There were besides 120 Meetings of Committees of the Corporation and 15 Meetings of Sub-Committees of the Standing Committee.

Commissioner.

3. Throughout the year, Mr. P. R. Cadell, C.I.E., I.C.S., continued to hold the office of Municipal Commissioner for the City of Bombay.

Financial.

4. Despite war conditions the financial position of the Municipality was very satisfactory during the year of report. With taxation at the same rates as in the previous year, the year's accounts reveal a substantial rise in the total revenue of the Municipality and the net result of the transactions for the year shows a surplus of Rs. 10,27,200. The year opened with a working Cash Balance of Rs. 57,32,139, including Rs. 3,91,994 being the value of stores in hand, and closed with a balance of Rs. 67,59,338. Exclusive of Rs. 9,98,761 reserved for lapsed grants required to be renewed in 1916-17, Rs. 11,01,288 ear-marked for payment to the City Improvement Trust on 1st May 1916, Rs. 1,00,000, the minimum required to be reserved under the Municipal Act, and Rs. 3,54,171, the value of stores in hand, the real unhypothecated Cash Balance at the close of the year stood at Rs. 42,05,118 against Rs. 31,57,415 for the preceding year. This at first sight appears to be a formidable amount, but considering the growing expenditure of the Municipality and considering also the present restrictions on its borrowings, this sum is in no way too large. From this amount advances to the extent of Rs. 7,26,455 have been made for Loan Works and about half a lakh of Rupees for Revenue purposes and a sum of Rs. 2,98,135 has been set aside for a special "Municipal Lands and Buildings Fund." The gross Assets exceeded the Liabilities by Rs. 3,35,04,785, aggregating Rs. 11,29,09,121 against Liabilities amounting to Rs. 7,94,04,336.

Income.

5. The rates of taxation continued to be the same as in the previous year. Nevertheless, there was a rise of Rs. 14,17,704 in the income for the year which totalled the record figure of Rs. 1,38,31,070 against Rs. 1,24,13,367 in the preceding year. The original budget estimate of Rs. 1,22,37,000 was exceeded by Rs. 15,94,070. The receipts from the General Tax showed an increase of Rs. 3,96,301 over the previous year. This was due partly to quinquennial revaluation of Government buildings, partly to the general enhancement in the rateable value of properties in the City and partly also to arrears of tax recovered from the Bombay Port Trust. The revenue from Water Tax brought in an increase of Rs. 1,07,009 due to increased consumption of water by public bodies such as the Railways and the Port Trust and by factories. The realization from

Halalkhore Tax showed an increase of Rs. 50,939 over the receipts for the past year due to enhancement in the rateable value and erection of new buildings. The Town Duties yielded Rs. 10,86,787 in excess of the receipts for the previous year, due partly as in the preceding years to the fluctuating character of the receipts from sugar, and partly to augmented revenue from the duty on grain. Taking all the factors of expansion into consideration and eliminating all variable and unreliable sources of revenue, the Chief Accountant estimates the permanent expansion in the income of the Municipality at Rs. 2,24,000.

Incidence of Taxation.

6. The following table shows the incidence of taxation per head of population for the last quinquennium :—

Year.	Rate of General Tax.	Incidence per head on population by census of 1911.
		Rs. a. p.
1911-12	10⅝%	10 13 2
1912-13	10⅝%	11 8 5
1913-14	10%	11 10 5
1914-15	9⅞%	10 14 8
1915-16	9⅞%	12 9 8

Expenditure.

7. The total expenditure for the year reached the unprecedented figure of Rs. 1,28,03,870, indicating an advance of Rs. 3,15,223 on the outlay of Rs. 1,24,88,647 for the previous year. Some of the principal factors contributing to this enhancement were as under :—

	Rs.
Assessment and Collection Department	34,740
Fire Brigade	6,877
New Works	22,118
Public Health Department	73,425
Education	40,122
Contribution to the C. I. Trust	40,482
Contribution towards the cost of Cadastral Survey of the Town and Island of Bombay	25,000
Debt	1,72,570

Making allowances for casual and non-recurring items, the Chief Accountant estimates the permanent increase in expenditure at Rs. 4½ lakhs as under, against Rs. 5½ lakhs for the past year :—

	Rs.
General Superintendence	4,000
Assessment and Collection Department	13,000
Fire Brigade	14,000
Public Works Department (including Water Works Department)...	1,01,000
Public Health Department	60,000
Education (contribution to Primary Education) ...	44,000
Pensions	4,000
Contribution to the C. I. Trust...	40,000
Municipal Debt...	1,70,000
Total Rs. ...	4,50,000

The fact that during the last two years the normal expenditure has been advancing at a rate higher than that of the income emphasizes the desirability of conserving the balances and effecting a closer approximation of receipts and disbursements.

8. LAPSED GRANTS, &c.—Out of the total sanctioned grants for expenditure aggregating Rs. 1,41,19,265, a balance of Rs. 13,15,395 remained unexpended at the close of the year. Of this, Rs. 9,98,761 required renewal for expenditure in 1916-17, leaving as savings a sum of Rs. 3,16,634. The amount which required renewal shows a decrease of Rs. 66,549 as compared with the amount for the previous year, the percentage of renewed grants to grants allotted being 7·07 against 7·7 in 1914-15. The amount of total unappropriated net savings shows an increase of Rs. 1,74,449, the percentage working out at 2·24 against 1·04 in 1914-15. The suspension of works for which materials could not be obtained owing to war conditions was, no doubt, largely responsible for this increased percentage of savings.

9. LOAN WORKS EXPENDITURE.—The total expenditure on Loan Works during the year aggregated Rs. 28,56,540 against Rs. 73,42,282 in the preceding year which included a heavy outlay in respect of the Tansa Main Duplication Works. The original estimates for the year aggregated Rs. 47,20,425 and the actual expenditure was 39·5 per cent. below the estimates, whereas in the preceding year it was 10·8 per cent. below the estimates. The statement appended to the Chief Accountant's Report, showing all new works for which grants were provided, the expenditure incurred during the year and the balances required to be renewed, indicates that while the available grants at the commencement of the year amounted to Rs. 4,94,343, the Executive were able to spend Rs. 2,32,643 or about 47 per cent. against 36 per cent. which they were able to spend out of the sanctioned grants in the year preceding.

10. PLAGUE EXPENDITURE.—The expenditure on plague operations during the year amounted to Rs. 1,22,912 against Rs. 1,27,633, showing a decrease of Rs. 4,721. The total outlay on plague measures from its outbreak upto the close of the year under review aggregated Rs. 80,97,440.

11. STREET IMPROVEMENTS.—During the year amounts aggregating Rs. 8,69,130 were made available for payment of compensation in respect of set-backs acquired, but against this sum payments could be made upto Rs. 7,08,791 only, leaving a balance of Rs. 1,60,339 which has been renewed for expenditure during 1916-17. The undischarged commitments upto 30th June 1916 in regard to set-backs already acquired and sanctioned to be acquired, amounted to Rs. 8,14,587, against which the funds sanctioned aggregated Rs. 3,71,587 only. These liabilities are likely to be considerably augmented during the current year and the Standing Committee desire to emphasize once more the necessity for enunciating at an early date a definite policy in respect of street improvements.

12. CAPITAL DEBT.—The loans raised during the year aggregated Rs. 57,01,500, of which Rs. 14 lakhs represented the 2nd instalment of the 20 lakhs loan for Street Improvements, Rs. 43 lakhs for Drainage, Water, Roads and Miscellaneous Works, and Rs. 1,500 the balance of the 70 lakhs loan for Tansa Main Duplication Works. Rs. 1,45,697 having been paid during the year towards reduction of debt, the total Capital Debt of the Corporation increased from Rs. 6,88,44,972 to Rs. 7,44,00,775. Against this debt the total Sinking Fund Investments aggregated Rs. 1,65,04,880, leaving a net debt liability of Rs. 5,78,95,895, against Rs. 5,37,64,155 in the preceding year. From the statement furnished by the Chief Accountant showing the book value and market value of the paper held in the Sinking Funds at the close of the year, it appears that the Sinking Funds have been considerably affected owing to the heavy fall in the market value of public securities. The Chief Accountant suggests that an Investment Reserve Account for adjustment between the face value and the market value of securities should be opened. The Committee will be glad to receive definite proposals from the Commissioner in the matter.

13. STORES AUDIT.—The Stores in stock on the last day of the year were valued at Rs. 3,54,171 against Rs. 3,91,994 in the preceding year. Of this, Rs. 4,581 represented the value of surplus and obsolete stores, showing a reduction of Rs. 266 only on the balance in hand on the last day of the year previous. As the verification of stock by two independent verifiers, commenced in the year 1914-15, could not be completed until the end of June 1915, it was not considered necessary to have a fresh verification in the year under review.

14. TEST AUDIT.—The Chief Accountant's test audit was continued during the year. The reports and correspondence regarding the test audit carried out by that officer are still under the consideration of a Committee of the Corporation and their report as to the results so far obtained and as to the desirability of extending the test audit is awaited.

15. VALUATION OF MUNICIPAL PROPERTIES.—The work of revision of the valuation of all Municipal properties which has been taken in hand since October 1912, was in progress during the year of report. The Committee hope this long-delayed work will now be expedited.

Assessment and Collection of Taxes.

16. The number of properties on the Assessment Book increased from 61,990 in the previous year to 62,356 in the year of report. 6,206 properties were exempted from the General Tax as being of insignificant value against 6,489 in the year previous and 2,405 non-Municipal properties were exempted under Section 143 of the Municipal Act against 2,106 in the preceding year. Under the same Section, 1,699 Municipal properties were not assessed against 1,578 in the previous year. The net result was an increase of 229 in the total number of properties assessed to the General Tax from 51,817 in the previous year to 52,046 in the year of report.

17. The year under review witnessed a further advance of Rs. 32 lakhs in the rateable assessment of properties. During the previous year it had risen from Rs. 5,21,62,819 to Rs. 5,38,67,232. In the year of report it rose to Rs. 5,70,83,834. Opening with a gross assessment of Rs. 6,10,29,489, the year closed with an assessment of Rs. 6,34,16,191 against Rs. 5,98,41,390 at the end of the year previous. 5,079 complaints were made during the year against 4,430 in the preceding year. These appear to have been satisfactorily dealt with as only 21 appeals were made to the Chief Judge of the Court of Small Causes. 19 out of the 21 appeals were settled out of Court or withdrawn by the appellants, 1 was time-barred and 1 was pending at the close of the year.

18. Inclusive of demands in respect of previous years amounting to Rs. 4,397, and claims amounting to Rs. 36,151 and Rs. 1,43,668 in respect of the difference between the original and revised awards concerning the assessment of Government and Port Trust properties respectively, the total demand on account of property taxes aggregated Rs. 92,95,107 against Rs. 87,26,098 in the preceding year, showing a substantial increase of Rs. 5,69,009. There was also an increase of Rs. 5,65,966 in the gross collections for the year, which amounted to Rs. 92,17,130. The outstanding balances on account of property taxes were reduced from Rs. 54,597 in the previous year to Rs. 40,137 in the year of report.

19. The claims for drawback admitted during the year numbered 5,696 against 3,960 in the previous year, and the amount of drawback allowed aggregated Rs. 87,602 against Rs. 58,107 in the preceding year. The question of revision of the rules in force regarding refunds and drawbacks is still under the consideration of a Committee of the Corporation. It is very desirable that

the rules should now be revised at an early date so as to minimise the chances of disputes arising in consequence of the ambiguities and intricacies of the existing regulations.

20. One more proof of the elasticity of the permanent sources of Municipal revenue is afforded by the returns of realizations from the property taxes during the year under review. Although the rate of taxation was the same as in the previous year, the receipts from the General Tax aggregated Rs. 54,37,751 against Rs. 50,41,449 in the previous year, showing an increase of Rs. 3,96,301. There was also an increase in the receipts from the Water Tax, which amounted to Rs. 23,23,021 against Rs. 22,16,012 in the preceding year. The Halalkhore Tax, inclusive of charges for special service, yielded an increased revenue of Rs. 14,68,587 against Rs. 14,17,647 realized in the year previous.

21. In the year 1913-14, Rs. 5,39,167 were realized from the Wheel Tax. The receipts during the year 1914-15 showed a decrease of Rs. 42,315 and there was a further decrease of Rs. 512 during the year of report when the receipts from this tax amounted to Rs. 4,96,340, exclusive of Rs. 22,433 derived from the right of collecting tolls at the Mahim and Sion Causeways, against Rs. 4,96,852 realized from the tax in the year previous. During the year 3,517 four-wheeled vehicles were taxed against 3,690 in the preceding year and 3,832 in the year 1913-14; and 908 two-wheeled vehicles against 924 in the previous year. There was, however, a substantial increase in the number of motor cars taxed during the year, which rose from 1,116 in the previous year to 1,346 in the year of report. There was also an increase in the number of motor cycles taxed during the year from 252 in the previous year to 313 in the year of report.

22. Owing to the partial cessation of trade caused by war conditions in the Indian Ocean and also owing to heavy refunds consequent upon excessive exports of sugar imported in the year 1913-14, there was a falling off of Rs. 7,98,327 during the preceding year in the net revenue from Town Duties. The city has, however, sufficiently recovered from these set-backs, as has been evidenced by enhanced receipts under all of the heads of dutiable articles except beer, giving an increase of Rs. 10,86,787 in the net revenue from this source. The gross collections from Town Duties for the year aggregated Rs. 36,60,101 against Rs. 26,27,757 in the previous year and the refunds allowed in respect of goods exported amounted to Rs. 16,93,443 against Rs. 15,82,068.

Public Works.

23. General Branch.—Numerous projects relating to Markets, Cemeteries, Stables, Chawls, Ward Offices, Staff Quarters, Hospitals, Primary Schools, Conveniences, Garden structures, etc., were under contemplation and plans and estimates were prepared but the actual works were held in abeyance for financial reasons. The Primary School at Ardeshir Dadi Street and the Lethal Chamber at Tardeo were brought in use, whilst the laying out of the much frequented terraced garden on the eastern slopes of Malabar Hill was continued. The new works carried out by the General Branch of the Executive Engineer's Department were mostly of a minor character, the expenditure thereon amounting to about Rs. 60,330. The building and repair works carried out through the agency of the petty works contractor amounted to Rs. 79,085 and the cost of covering wells to Rs. 23,567. The registration of the class and floor area of tenements in new and altered buildings in the City, started in the preceding year was also continued, and 1,227 buildings were surveyed during the year for the purpose, the number of buildings surveyed in both the years totalling 2,243.

24. DRAINAGE.—The year was again one of considerable activity for the Mechanical and Drainage Branches. The engines and pumps in the New Pumping Station at Love Grove worked fairly well, but the higher lift entailed in pumping through the Old High Level Outfall during the fair season, owing to the New Low Level Outfall not being available on account of extension operations, subjected the pumps to excessive wear and breakage. Some of the broken parts of the pumps were replaced as soon as possible and orders for the rest were placed with the manufacturers of the plant in England, but owing to the war, the manufacturers have not been able to deliver the parts. In the meantime, temporary repairs and reinforcements were effected and it has been decided in consultation with Mr. G. Midgley Taylor to attach a large air vessel to the delivery main of the pumps to minimise the chances of further breakages. On the closing down of the New Low Level Outfall Works for the monsoon, the completed portion of the outfall was again brought into use from the 28th May 1915.

25. Towards the close of the year, the effect of the increased water supply consequent on the duplication of the Tansa Main began to be seriously felt and the three engines in the New Station working up to their full capacity were unable to prevent a surcharge in the main sewer during the hours of maximum flow between 8 A.M. and 2 P.M. No assistance could be given from the Old Pumping Station as the Old High Level Outfall was unable to deal with the excess quantity of water. The Committee are glad to learn that a scheme is now under the consideration of the Executive for laying a temporary bye-pass pipe from the completed portion of the New Outfall at an angle to the line of the present work, to allow of sewage being discharged through this bye-pass during the fair season. The preliminary design received from Mr. Midgley Taylor of the supplementary pumping plant to be installed at the station, for dealing with the increased water supply is also under consideration, but it is feared that until the war is over, it will not be possible to take any definite steps towards the installation of the additional plant. The greater portion of the main rock barrier obstructing the Low Level Outfall Works was removed during the year, and a length of 125 feet added to the length of 1,100 feet of the outfall laid upto the close of the preceding year. A walking gantry, which was an important part of the machinery for the Outfall Works, was lost in transit, the ship which carried it having been sunk in November 1915. Enquiries made for a suitable Titan Crane as an alternative means for carrying on the works also proved fruitless. As no appreciable progress could be made without either of these, a gantry or a crane, and as the monsoon was approaching, the services of all the members of the staff on the works with the exception of an Assistant Engineer and a few other members required for looking after their maintenance, were dispensed with at the close of the year. The total expenditure incurred in connection with the works amounted to Rs. 11,63,926.

26. The Colaba and Love Grove Air Compressor Stations and the several Ejector Stations worked pretty satisfactorily during the year. A portion of the 15″ cast iron sealed sewage main in Fergusson Road was renewed and a part of the 8″ steel sewage main in Warden Road was replaced by a 12″ cast iron main. The question of the diversion of the storm-water channel from Love Grove to Worli and of the provision of pumps at Worli for the disposal of storm-water had to be put off owing to war conditions. The Centrifugal Pump erected at the storm-water outlet at Worli for abating in the meanwhile the nuisance arising from the stagnant water in the channel during the fair season, worked efficiently and much of the usual flooding of the low-lying localities in the neighbourhood of the channel was prevented during the year. The completed portion upto Clerk Road of the additional main sewer which is being laid from Love Grove to Khetwadi Back Road, was brought into use before the commencement of the monsoon by effecting a connection between the old and new

sewers at Clerk Road, and the work of constructing the further portion of the sewer from Clerk Road to the junction of Lamington Road and Gilder Lane was in progress. Mr. Midgley Taylor's further report regarding the sewerage of the north of the Island with special reference to the type of power to be adopted at the Pumping Station is still under consideration. The work of constructing the main sewers has been however postponed pending improvement of the financial conditions.

27. During the year 340 street connections were made against 216 in the preceding year at a cost of Rs. 16,215. In addition to these, 133 storm-water connections were made, at a cost of Rs. 4,569, against 110 in the preceding year. Action to get properties in the Malabar Hill District connected with the new sewers was continued. Five notices were served and all of them were complied with. 31 manhole frames and covers were provided over storm-water drains at Argyle Road. 1,346 improved concrete covers were provided over storm-water entrances. These covers have proved effective in arresting the breeding of mosquitoes.

28. STREETS AND BUILDINGS.—3,461 building applications were received during the year against 3,558. 338 notices were issued for removal of unsafe buildings against 419 in the preceding year. Of these, 268 were complied with. In 21 cases the objectionable structures were removed by the Municipality and 49 cases were pending at the close of the year. 26 buildings or parts of buildings fell during the year against 19 in the year preceding. In 23 cases no injury was done and in the remaining cases 4 persons were injured. Action was taken for the removal of 112 inflammable and insanitary huts, of which 83 were removed and 29 cases were pending at the close of the year. 9 notices were issued, under Section 378 of the Municipal Act, for the improvement of insanitary buildings. In 4 cases the owners complied with the requisitions, and the remaining 5 cases were pending at the close of the year. In 2 cases out of 3 pertaining to the previous year the requirements of the Municipality were being carried out during the year of report and in the third case the building continued to be vacant.

29. 674 prosecutions were instituted against 711 in the previous year. 166 cases were withdrawn on compliance with the requirements of the Department. In 311 cases the parties were warned and discharged, while 161 persons were convicted and fined, and 36 cases were pending at the close of the year.

30. Ground measuring 8,166·56 square yards was added to the streets during the year of report against 4,652·79 square yards, the cost estimated being Rs. 2,13,190 against Rs. 1,55,317, the estimated value of the land acquired during the previous year. This slight increase in cost notwithstanding the marked increase in the area thrown in the roadway during the year is accounted for by the fact that more than half of the area acquired during the year under review was F and G Wards land which was valued at Rs. 27,725 only.

31. The area of roads metalled and patched during the year was 5,551,431 square feet against 5,070,156 square feet, and the total amount spent on repairs and maintenance was Rs. 6,37,379 against Rs. 5,89,912, the rates for full metalling and full patching working out at 10·87 pies and 7·2 pies per square foot, respectively, against 10·09 pies and 6·7 pies in the preceding year. The rates for the year under review were slightly higher owing to a rise in the price of metal and to several of the roads being bottomed with rubble packing and to others being metalled with 6″ to 9″ metal coat instead of with the usual 3″ coat so as to bring the roads to a proper camber and to enable them to withstand the adverse effects of heavy tractors until proper foundations

can be provided. Considerable difficulty was experienced on account of scarcity of labour and materials. The roads were damaged to a greater extent than usual on account of the protracted monsoon and the increase in the number of heavy tractors. Out of 168 miles of road, 29½ miles were disturbed in connection with pipes, cables, &c., against 30¾ miles in the preceding year. The operations of the Tramways Co., the Gas Co., the Telephone Co., and of the Tata Hydro-Electric Co., were responsible for about 17¾ miles. Roads measuring 237,785 square yards were treated with tar at a cost of Rs. 1,18,690. Most of the city roads being found to have been constructed without a sound foundation, which leads to their rapid deterioration and an increase in the cost of maintenance, it was decided to gradually provide a sub-crust of hand-set rubble. Accordingly 11 roads carrying heavy traffic and covering an area of 246,303 square feet were provided with a packing of new rubble 10″ thick at a cost of Rs. 28,410 during the year.

32. The extension of Lady Hardinge Road eastward to the G. I. P. Railway Level-crossing at Matunga was in progress at the close of the year. Important roads such as Rampart Road, Abdul Rehman Street, Musjid Bunder Road, Dockyard Road, Lamington Road, Mahim Bazar Road, and Mount Road, were specially taken up for widening. 8 private streets were under action for improvement under Section 305 of the Municipal Act. New footpaths were formed at several places and pavement of footpaths was undertaken at about a dozen places. A portion of Frere Road from Carnac Road to Carnac Road Siding was paved with Jamba and Teak timber blocks as an experimental measure and the adjoining strip of road surface was treated with bituminous macadam, both the portions having been previously bottomed with cement concrete. A portion of the western side of Frere Road between Musjid Siding and Thana Street was likewise experimentally treated with bituminous metal. The results of these experiments will be awaited with interest. 332 new roadside trees were planted in 26 streets and the work of improving the condition of existing roadside trees was continued.

33. Tramways.—No extensions or renewals of tramways were carried out during the year.

34. Overbridges.—The widening and raising of the Elphinstone Bridge and its two approaches by the G. I. P. Railway was completed. The work of construction of the Currey Road Overbridge was also completed with the exception of the approach along DeLisle Road which will shortly be taken in hand by the G. I. P. Railway Company. As the Railway Board did not sanction funds, the work of constructing the proposed Clerk Road Overbridge on the B. B. & C. I. Railway could not be taken in hand by the Railway Authorities. The question of increasing the width of the proposed overbridge at DeLisle Road over the B. B. & C. I. Railway having been finally disposed of by the Corporation, negotiations have been opened for the acquisition of the necessary properties for the increased 80 feet width. Detailed plans of the Dadar Overbridge are under preparation by the Railway Authorities.

35. Survey of Bombay.—During the year the topographical survey of the Island was continued by Government Surveyors and assistance was rendered to them by the Engineering Department.

36. Lighting.—For the lighting of the City 6,253 gas lamps and 1,344 kerosene oil lamps were maintained during the year at a cost of Rs. 3,92,286 and Rs. 29,887 respectively. These figures indicate an increase of 134 in the number of gas lamps and a decrease of 13 in the number of kerosene oil lamps and a net increase of Rs. 5,895 in the total expenditure. In the review of the Administration Report for the preceding year it was stated that with a

view to considering what new departures should be made in the lighting of the City, an experiment was carried out with gas and electric lamps from the 8th February to 31st August 1915 on roads selected for the purpose, so as to ascertain the possibilities of the two methods of illumination under practically identical conditions. As the choice between the two systems would depend on the comparative cost of working and as this again would depend on the initial cost, it was not considered safe to prepare estimates owing to abnormal prices of fittings and appliances prevailing during that year. For the same reason the preparation of the estimates could not be taken in hand during the year of report and the work will have to be deferred till normal prices are restored.

37. Workshops.—There was a considerable increase in the work turned out at the Workshops owing to the large quantity of cut timber and machinery that was requisitioned for the Love Grove Outfall Works. Several new articles had also to be manufactured for the various departments of the Municipality. The value of departmental and private work turned out at the Workshops has been computed at Rs. 2,88,219 against Rs. 2,53,978 during the preceding year, the net result of the year's transactions being a balance of Rs. 13,777 against Rs. 5,203 in favour of the Workshops. Good progress was made with the work of constructing the New Workshops at Foras Road. The masonry and steel work of the second section of the Workshops and plans and estimates for the third and final section were completed during the year. The four motor cars provided for the Engineering and Health Departments covered 27,358 miles at a running cost of 5·19 annas per mile as compared with 5·26 annas in 1914-15.

38. Water Works.—During the year the Water Works were maintained in a state of efficiency. The old outlet well at the Malabar Hill Reservoir has been remodelled and converted into a Central Control House to accommodate all the inlet and outlet valves from both the reservoirs. All the old mains to and from the reservoirs together with the additional inlet and outlet mains in connection with the Tansa Main Duplication Works have been directly connected to it. The old inlet well has been connected to No. 2 Reservoir and the storage capacity of the reservoir has been thus increased. All the filter-beds were rendered mosquito-proof and further mosquito-proofing works on the reservoirs were in progress. The work of carrying out the alterations at the Bhandarwada Reservoir necessitated by the operations of the G. I. P. Railway Co. in connection with the overhead railway through Wari Bunder was completed. Reservoir No. 1 which showed signs of leakage during the year was rendered water-tight. The work of improving the filter outlets was nearing completion at the close of the year. All works in connection with the duplication of the Tansa Main, for which funds were provided, were brought to completion during the currency of the year. Their Excellencies Lord and Lady Willingdon performed on the 8th December 1915 the ceremony of inaugurating the increased Tansa supply and the whole city commenced to derive increased supply of water from April 1916. The increase in the supply was attended with an increase in the leakage along the Tansa duct owing to the increased depth of water and steps were immediately taken for reducing the leakage temporarily. Measures to stop the leakage permanently are in hand. The land required in connection with the construction of a terminal reservoir at Ghatkoper has been acquired, but owing to the present financial situation all work in connection with this reservoir has been kept in abeyance.

39. The rainfall for the year at all the lakes was lower than that of the preceding year. At Tansa Lake it was 92·08 inches against 132·80 in 1914, and was 4 per cent. below the average for the preceding five years; at Vehar it was 91·60 inches against 108·73 in 1914 and was 12·5 per cent. above

the average ; at Tulsi it was 85·46 inches against 116·94 in 1914 and was 4 per cent. below the average. The Tansa Lake overflowed continuously from the 6th August to 24th October. The Vehar and Tulsi Lakes did not overflow during the year.

40. 514 new water connections were made and 253 were cut off for various reasons of which 103 were restored. The total number of connections thus stood at 25,270 against 24,906 at the close of the preceding year. Of these 2,590 were metered against 2,578 in the year 1914-15.

41. 9,860 underground and 21,585 aboveground leaks and defects were detected and remedied by the Waste Prevention Branch of the Water Works Department. The total length of mains examined, excluding second and subsequent tests, was 62,669 feet against 11,356 feet in the previous year, and the length including second and subsequent tests was 23,82,793 feet against 24,64,100 feet. The total length of mains of all sizes sounded was 127 miles and 550 feet. The work of renewing, enlarging and extending the water mains was continued during the year and about 2 miles of new pipes were laid in addition to the large mains laid in connection with the Tansa Main Duplication Works.

Fire Brigade.

42. Throughout the year the Fire Brigade was maintained in a state of thorough efficiency. During the previous year it had to meet an unprecedentedly large number of calls on record. It is satisfactory to note that in the year of report there was a drop of 108 in the number of calls received by the Brigade. Of the 237 calls received, 39 were false alarms against 29 in the year preceding. The actual number of fires declined from 280 in the previous year to 176. Of these, 102 fires were extinguished by the Brigade and 74 were extinguished before its arrival. The water supply at fires was found to be satisfactory. Sea water was also used on several occasions. The total damage to property is estimated at Rs. 6,36,503 against Rs. 30,19,569 in the preceding year. The highest amount of damage in a single case—the Sewree Point Fire—was computed at Rs. 1,50,726. This fire occurred in the bulk oil installation and one of the oil tanks containing 161,000 gallons of kerosene oil was completely destroyed. Another serious fire occurred at Sewree Bunder when a barge loaded with petrol drums caught fire. Out of the several persons who received serious injuries, 5 persons subsequently lost their lives. The amount of damage in this case was Rs. 35,000. Of the total amount of damage, Rs. 3,94,422 represented insured, and Rs. 2,42,081 uninsured property. 4 persons lost their lives at fires, and 10 received injuries to which they subsequently succumbed. The Brigade also attended at 4 cases of fallen houses, where no lives were lost but two persons received slight injuries.

43. The proposed new site for the Fort Fire Brigade Station on Mint Road was acquired, but owing to the war, the work of constructing the station could not be proceeded with. Out of the 72 Fire Alarms sanctioned by the Corporation, 62 have been erected and are working satisfactorily. The work of erecting the remaining Fire Alarms was in hand.

Public Gardens.

44. Due chiefly to the exodus of the people on the outbreak of the war, the number of visitors at the Victoria Gardens had fallen off from 1,665,973 in the year 1913-14 to 1,340,034 in the previous year. During the year of report the number increased to 1,544,708. The number of band performances at the Victoria Gardens, Esplanade Bandstand and Chowpatty had to be curtailed during the year, partly because the grant was reduced and partly also because the bands were not available owing to the transfers of regiments. In

the year previous Their Excellencies Lord and Lady Willingdon had graciously offered their Band to play for the benefit of the public during Their Excellencies' stay in the City. The same facility was given by Their Excellencies during the year of report and the thanks of the City are due to Their Excellencies for the performances at which the public were entertained by the Band during the two years. The question of improving the Victoria Gardens is still under the consideration of a Committee of the Corporation. Two ornamental drinking fountains were put up at the gardens out of the donation of Rs. 2,800 kindly offered by the Trustees of the estate of the late Mr. Ardeshir Dadabhoy Dadysett for the purpose. The proposal for converting the Northbrook and the Falkland Road Gardens into recreation grounds is receiving attention. Good progress was made in the year of report with the work of recasting the Bhattia Baug Garden.

45. Among the additions to the Zoo at the Victoria Gardens may be noted three Persian Gazelles, a Persian Jackal, a Snake Bird, a Jungle Cat and two Giant Herons presented by Colonel Sir Percy Cox, K.C.I.E., (Basra), a Palm Civet by Miss M. Porritt, a small Indian Civet by Mr. E. C. B. Acworth and two Arabian Baboons by Messrs. Cowasji Dinshaw and Brothers of Aden. The Corporation are very grateful to these and other donors for their valued presents.

46. The year was one of great fatality for the Zoo. There was an outbreak of Bovine Tuberculosis amongst the Llamas and Spotted Deer in the gardens and a pair of Llamas and a pair of Deer in two adjoining compartments died of the disease. With a view to preventing the spread of infection the Commissioner rightly decided, in consultation with the Health Officer and Major W. G. Liston, C.I.E., to destroy all the animals in the two enclosures. In all 15 Spotted Deer, 5 Llamas and 1 Sambar Cow were thus destroyed and all the enclosures and paddocks in which deer and antelopes are kept were thoroughly disinfected. Mortality from other diseases in the animals was also considerable during the year of report. The thanks of the Corporation are due to Major Liston for his valued investigations into the illness among the animals and for his ready assistance in their treatment, and to the Principal and staff of the Bombay Veterinary College for the assistance rendered by them.

47. Victoria and Albert Museum.—The Museum was open to the public during 314 days of the year. The total number of visitors was 745,216 against 673,796 in 1914-15, giving a daily average of 2,373 against 2,160 in the preceding year.

Health Department.

48. It is highly gratifying to record that after a series of years of great unhealthiness and fearful mortality, there has been for the past few years a gradual improvement in the health conditions of the City. The vital statistics for the year under review beat all past records and judging from these the year may be pronounced to have been the healthiest in the annals of the City. While the birth-rate for the year was one of the highest recorded in previous years, the death-rate was the lowest registered since the year 1874, the toll taken by the principal diseases having been in most cases the lightest the city has known for many years. There was besides no epidemic incidence of any disease except Plague, the mortality from which again was the lowest since the appearance of the disease in 1896.

49. 20,052 births were registered during the calendar year 1915 against 19,679 during the preceding twelve months. It was pointed out in the review of the report of the previous year that a noteworthy statistical pheno-

menon of the year was the repeated excess of registered births over deaths successively during certain weeks. This phenomenon of "natural increase," recorded for the first time in the history of Bombay, was in more frequent evidence during the year of report. The birth-rate for the year was 20·47 which was higher than that of 1914 (20·09), but ·56 lower than the decennial average (1905—1914) which was 21·03.

50. The number of registered births does not, however, represent the whole of the infant population of Bombay, inasmuch as a considerable number of children of mothers belonging to the City but born outside it and brought into the City after birth is not registered. During the year under review 6,478 such children were vaccinated. Taking these into account as well as the percentage of the un-registered children who must have escaped vaccination owing to death or delays, the probable infant population of the City has been computed at 28,043, giving a birth-rate of 28·63. The following table indicates the birth-rate among the principal communities :—

Communities.	Birth rate for 1914.	Birth rate for 1915.
Hindus	18·84	19·22
Mussalmans...	20·80	21·16
Parsees	27·13	26·89
Jews...	36·07	34·56
Native Christians	26·40	27·66
Eurasians	31·27	34·14
Europeans	15·80	14·88
Buddhists	10·38	27·68

51. Declining returns of births received during the early part of the year 1913 having arrested the attention of the Health Department, a census was taken on the 31st May 1913 of children upto 2 years of age in 47 of the thickly populated chawls, especially in poor localities selected from the different wards of the City. The statistics revealed quite a large proportion of births that escaped registration. A similar census was taken on the 29th May 1914 with a-view, chiefly, to checking the results obtained in 1913. In all 50 chawls were selected, of which only 10 were common to the enumerations of 1913. The results showed that the proportion of births that escaped registration was 1·26 per cent. against 9·5 per cent. in 1913, indicating more thorough registration in that year. The chawls enumerated in the year of report were the same as in the previous year, and the census indicated that out of the 389 children ascertained to have been born in these chawls, 383 or 98·4 per cent. were registered and that 6 or 1·54 escaped registration, showing that the improvement in the system of registration has been maintained.

52. There was a remarkable fall in the total mortality from 31,853 in the preceding year to 23,681 during the year under review, giving a death-rate of 24·17 against 32·52 in 1914, the lowest recorded since 1874 (24·04). As compared with the preceding decennium, the total mortality shows a reduction of 16·00 from 40·17 to 24·17. Large decreases were recorded during the year of report under Plague, Measles, Cholera, Respiratory Diseases, Diseases of the

Nervous System, Old Age and Debility, Tubercular Diseases, Fevers, Diarrhœa and other general diseases. The number of victims claimed by Tuberculosis was the lowest recorded, the deaths registered from this disease being 1,710 against 1,889 in the previous year. Of these, 1,411 deaths are credited to Phthisis, being 109 less than in the preceding year. On the recommendation of the Medical Relief Committee, the Corporation have approved of a special provision of 25 beds for cases of tuberculosis in the Maratha Hospital and of a special ward of 50 beds in the King Edward Memorial Hospital. Plague was responsible for 599 deaths against 2,941 in the previous year. This is the lowest mortality recorded since the outbreak of the disease in the City, as will be seen from the subjoined table :—

Year.	Number of Plague deaths.
1896	1,936
1897	11,003
1898	18,185
1899	15,796
1900	13,285
1901	18,736
1902	13,820
1903	20,788
1904	13,538
1905	14,198
1906	10,823
1907	6,389
1908	5,361
1909	5,197
1910	3,656
1911	4,006
1912	1,717
1913	2,609
1914	2,941
1915	599

53. Against 221 in the year 1914 only 16 deaths from Cholera were registered in the year of report, the lowest on record since the year 1848. Although Small-pox was prevalent in the year, it did not attain epidemic proportions and 359 deaths from this disease were recorded against 252 in the previous year. Usual facilities were provided for the vaccination of Hajis, and out of 2,433 pilgrims who left Bombay for the Haj from August to October, 2,311 or 94·99 per cent. were vaccinated in Bombay before embarkation. This is the highest percentage recorded of Hajis vaccinated at Bombay prior to their embarkation. Facilities were also afforded to the public for vaccination and revaccination, and 29,837 persons were vaccinated. Of these, 19,721 were primarily vaccinated and 10,116 revaccinated.

54. In all 2,091 deaths from fevers were registered, showing a decrease of 786 as compared with the year previous. Of these, 208 deaths were attributed to Malaria, being 5 less than in the preceding year and 84 below the average of the previous quinquennium. The anti-malaria operations were continued during the year. 124 wells were filled in and 425 wells were covered over. The Mastan Tank was filled in and the work of filling in the Nawab Tank was in progress during the year. 25,430 tabloids of quinine hydrochloride were distributed free amongst the poor, who were visited in their homes, and amongst charitable institutions in the City. A spleen census was taken as before, and efforts to educate the public in the causes and prevalence of Malaria by lectures and demonstrations were continued. Now that a considerable proportion of the infected wells and breeding places in the southern part of the Island has been protected, the Commis-

sioner does not think it necessary to retain any longer the Malaria staff as a separate branch of the Health Department, and he proposes to carry on the malaria operations in future as part of the ordinary duties of the Health Department. This question is now under the consideration of a Committee of the Corporation.

55. As usual the death-rate amongst the Europeans was the lowest, being 13·62 against 18·32 in the preceding year. The death-rate amongst the Parsees was the next lowest, being 18·82 against 22·32. Amongst the Jews it was 22·28 against 27·73, amongst the Hindus 22·77 against 31·30, and amongst the Native Christians 27·69 against 34·28 in the previous year. Once again the Mahomedans recorded the highest death-rate of 30·89 against 40·76 in 1914.

56. With the marked decline in the general mortality of the City, there was also a substantial decrease in infant mortality. Against 7,580 in the year previous, only 6,602 deaths of infants upto one year of age were registered. This also is the lowest on record since 1893 excepting the year 1898 when 6,279 deaths were recorded. The death-rate per mille of births registered was 329·2 against 385·1 in 1914, and is the lowest recorded ratio. In the year 1900, the ratio was 1,063·3, so that during the last 15 years, there has been a reduction of 734·1. With a view to gauging, if possible, the effect of economic conditions on the infant mortality of the City, the Health Officer opened a new tabulation during the year for classifying births according to the number of tenements occupied by the parents as also the number of deaths that occurred among these infants. This classification covers a period of only three months from October to December 1915. Although this is too short a period to warrant any definite conclusions that may be suggested, the results are no doubt interesting and they show that the proportion of deaths amongst infants decreases with the number of rooms occupied, as will be seen from the subjoined statement :—

	Under 1 Room.	1 room.	2 rooms.	3 rooms.	4 or more rooms.	Road sides.	Hospitals.	Total for 3 months.
Births	78	4,412	913	280	298	30	252	6,263
Infant mortality	49	1,409	220	54	54	15	59	1,860
Infant mortality per 100 births registered	61·8	31·9	24·0	19·2	18·1	50·0	23·2	29·6

The Municipal Nurses and Midwives together with the Lady Health Visitors of the Bombay Sanitary Association continued their efforts to educate and assist the backward classes in the upbringing of their children. 1,425 confinements were attended by the Municipal nurses against 1,214 in 1914 and their house to house visits numbered 28,276 against 27,660 in the previous year. One of the measures recommended by the Committee appointed in the year 1913 to advise the Corporation as to the means of improving the condition of women during labour and of their infants during infant life was the provision of a Maternity Home, where poor women should be induced to go for confinement and which the untrained Dais may be encouraged to attend with the object of learning how confinements ought to be conducted. A Maternity Home was accordingly opened with the sanction of the Corporation as an experimental measure and it was stated that from the 22nd February 1915, when the first confinement case was admitted into the Home, to 30th April 1915, 38 women had taken advantage of the Home. During the remaining part of the year, *i.e.*, from 1st May 1915 to 31st December 1915, 211 more women took advantage of the Home. The success which attended this Muni-

cipal Maternity Home induced the promoters of the Lady Willingdon Scheme to establish two more Maternity Homes in the poorer quarters of the City, one at Parel and the other at Colaba.

57. 1,01,707 persons availed themselves of the free medical aid given at the Municipal dispensaries against 91,536 in 1914. Of these, 2,040 patients were seen at their houses. The number of persons treated at the Aided Charitable Dispensaries at Colaba and Victoria Bunder was 8,306, of whom 54 were seen at their houses. 836 notifications of Infectious Diseases were received during the year from Medical Practitioners against 1,746 during the preceding twelve months.

58. The Municipal Laboratory shows continued activity. 6,419 articles were examined during the year, showing a decrease of 2,530 in the number of samples examined during the year previous. This decrease, the Municipal Analyst observes, was mainly due to the completion of the special research work in connection with milk during the year. If the number of samples of milk examined are excluded from the total number of samples examined, there would be scarcely any difference between the number of samples examined during the two years. Of the 6,419 samples examined during the year, 2,217 were examined chemically and 4,202 bacteriologically. 144 jars of rat poison were prepared during the year. 125 jars of mercurial solution were prepared in the Laboratory, and 1,588 capillary tubes of Glycerinated Vaccine were examined as to their sterility before being used for the Vaccination Department and 456 more tubes for the detection of extraneous micro-organisms. The special research work in connection with the Bombay milk supply, commenced in 1913, was concluded during the year, and the Analyst has given an interesting account of his investigations in a book entitled "The Milk Problem in Indian Cities." The question of formulating a scheme for creating a centre for the location of new milch cattle stables under Municipal supervision is still engaging the attention of the Committee appointed by the Corporation to report on the question.

59. There were 878 admissions to the Arthur Road Hospital during the year of report, against 826 in the previous year. Of these, 440 were cases of Small-pox, 16 of Cholera, 106 of Chicken-pox and 44 of Measles. 140 cases proved fatal. Of the 440 small-pox cases, 267 were vaccinated and 173 unvaccinated, and the incidence of mortality amongst these two sets of cases was 12·35 and 36·99 respectively, proving as usual the efficacy of vaccination in reducing the case mortality rate amongst those protected by it. The admissions to the Maratha Hospital numbered 161 against 466 in 1914. Of these, 135 were plague cases, the mortality rate amongst them being 71·85 per cent. The proposed improvements at the Arthur Road Hospital and the provision of wards for better class of patients and Europeans could not be taken in hand during the year for want of funds.

60. Commissioner Booth Tucker's advocacy of the treatment of Plague by Iodine having attracted considerable attention, an effort was made to give it a fair trial during the epidemic of 1914, but the results did not indicate that the treatment was of any value among the class of patients treated at the hospital. Another trial was given to the treatment during the year 1915, which, observes the Special Assistant Health Officer in charge of the Plague Hospital, indicated that the treatment had no influence on the course of the disease or in lowering its rate of mortality.

61. For the removal of the City refuse mechanical means of transport are being gradually introduced and manual labour for the removal of night-soil is also being gradually replaced by the water carriage system. During the year 661,485 cart-loads of rubbish were emptied at the Tardeo Flats

and other places against 602,634 in the preceding year. 87,837 night-soil and cesspool carts and 4,135,438 night-soil baskets were emptied at the several night-soil depôts as compared with 99,968 night-soil and cesspool carts and 4,182,021 night-soil baskets in the foregoing year.

Licenses.

62. 12,374 licenses were issued in the year of report against 11,967 in the previous year. The receipts consequently rose from Rs. 1,09,706 in the preceding year to Rs. 1,13,522.

63. The enforcement of the revised Bye-laws in respect of milch-cattle stables has effected considerable improvement in the condition of these stables and the overcrowding of animals is being gradually relieved. The amendment of Section 461 having been recently passed by Government empowering the Corporation to frame Bye-laws for prescribing and regulating the construction, lighting, cleaning, etc., of premises used for any of the purposes mentioned in Section 394, steps will now be taken to bring into operation, the Bye-laws already drafted for the licensing of horse and bullock stables. From the 1st October 1915, the work of licensing the Milk trade was transferred from the License Department to the Health Department to which it rightly pertains. All noisy trades were brought under control for the first time during the year, the principal condition of the license being that the work should be carried on only between 7 A. M. and 7 P. M.

64. It is satisfactory to find that notwithstanding the regulation of new trades and the enforcement of new Bye-laws, there was a fall in the total number of prosecutions from 4,899 during the preceding twelve months to 4,632 in the year of report. This was due to a certain extent to the transfer of the work of licensing the milk trade to the Health Department in the middle of the year. Out of these, 3,017 cases were withdrawn and in 1,317 cases, fines were inflicted which amounted to Rs. 18,454.

Markets.

65. There was a slight falling off in the receipts from the Markets and Slaughter Houses which had, for some years past, shown a steady increase from Rs. 4,88,606 in the year 1910-11 to Rs. 6,01,015 in the year 1914-15. The revenue amounted to Rs. 5,88,814 against Rs. 6,01,105 in the previous year. This was principally due to a decrease of Rs. 11,303 in the receipts from the sale of rights, as traders and bidders were reluctant to advance their bids owing to the war. The receipts from Slaughter Fees, Butchers' License Fees, etc., also showed a decrease of Rs. 1,340, due partly to the amount realized from the sale of blood being less than in the previous year, and partly to one of the licensees for the collection of guts not having renewed his license. There was an increase of Rs. 1,045 in the receipts from Squatters' Fees, due to sustained efforts of the Department to remove squatters from the vicinity of the markets into the markets.

66. The quantity of unwholesome food destroyed during the year was 271,370 lbs. against 231,820 lbs. The quantity of contraband meat seized and destroyed was 3,596 lbs. against 3,148 lbs. in 1914-15.

Primary Education.

67. During the year under review 8 new Schools were opened, 4 Marathi, 2 Gujarati, 1 Urdu and 1 Gujarati Nirashrit Boy's School. 4 Schools were amalgamated with others. The number of Municipal Schools for the Depressed Classes increased from 11 to 15.

68. There were in all 183 schools with 21,669 pupils against 179 schools with 18,046 pupils in the preceding year. The number of aided schools and of pupils attending them stood at 132 with 15,536 pupils against 136 schools with 14,358 pupils in the previous year. The grant-in-aid given to aided schools increased from Rs. 58,642 in the preceding year to Rs. 58,781. The Schools Committee's receipts for the year aggregated Rs. 5,01,082 and the expenditure was Rs. 5,02,173 against Rs. 4,77,963 in the year previous, the increase being accounted for by the opening of new schools, provision of better quarters for some schools, employment of a hundred additional teachers and the re-organization of the Superintendents' Department.

69. The medical inspection of the school children as well as the teachers, begun in the preceding year, was brought to completion during the year under review, and the report received from the Schools Committee on the results of the inspection was placed before the Corporation during the year. The question of entertaining a permanent establishment for medical inspection is under consideration and a further report on the subject has been called for by the Corporation from the Schools Committee.

70. The proportion of trained teachers to untrained teachers was 235 to 167 in Marathi schools. In the Gujarati schools, however, it was 84 to 129 and in the Urdu schools 21 to 167. Efforts to increase the proportion of trained teachers were continued during the year. Several school teachers were sent to the Government Training Colleges at Poona and Ahmedabad with scholarships from the Committee for training, and three training classes were opened in the City, one for Gujarati male teachers, one for Urdu male teachers and a third for Urdu lady teachers.

71. No further progress could be made with the work of constructing school buildings out of the combined Government and Municipal grant of Rs. 10 lakhs owing to the financial situation created by the war. The combined arrangement was arrived at 10 years ago and heretofore only four buildings have been provided at a cost of about half the amount sanctioned. The Standing Committee regret that the programme will now be further delayed owing to the orders issued by Government to suspend the payment of grants until the financial situation improves. The question has, however, been referred to a Committee of the Corporation, and the Standing Committee trust that it will be found possible to proceed with the work pending subsequent adjustment of the financial arrangements. The general question of the housing and equipment of the Municipal Schools, of the physical condition of the pupils, and of the extension of elementary education in the City has been now engaging the serious consideration of the Corporation. Enquiries are being made concerning the feasibility of reforms in several directions, and the public may look forward with confidence to comprehensive measures, worthy of this City, for putting the whole system of primary education on a better footing than at present.

Conclusion.

72. In conclusion the Standing Committee have much pleasure in putting on record their appreciation of the successful administration of Municipal affairs during the year by the late Municipal Commissioner, Mr. P. R. Cadell, C.I.E., I.C.S.

SALEBHOY KARIMJI BARODAWALLA,
Chairman of the Standing Committee.

MUNICIPAL CORPORATION OFFICE,
BOMBAY, *4th October* 1916.

Annual Administration Report of the Municipal Commissioner for the City of Bombay for the year 1915-1916.

Introductory.

1. Mr. P. R. Cadell, C.I.E., I.C.S., continued to hold the office of the Municipal Commissioner for the City of Bombay throughout the year.

2. The general health of the City was, as will be seen from the Executive Health Officer's report, satisfactory during the year.

I.—Corporation and Standing Committee.

THE CORPORATION.

3. Mr. Phiroze C. Sethna was appointed President of the Corporation at the meeting held on the 8th April 1915, and he held that appointment throughout the year.

4. Sixty-two meetings of the Corporation and one hundred and twenty meetings of the Committees of the Corporation, other than those of the Standing Committee, were held.

5. The changes that took place during the year in the personnel of the Corporation were as follows :—

Mr. G. D. Traylen resigned on the 13th May 1915, and in his place Mr. F. H. Simkin was appointed by Government on the 31st May 1915.

The Hon'ble Mr. Fazulbhoy M. Chinoy, C.I.E., died on the 21st July 1915, and in his place Mr. Rahimtoola M. Chinoy was appointed by Government on the 6th August 1915.

The Hon'ble Sir Pherozeshah M. Mehta, K.C.I.E., died on the 6th November 1915, and in his place Mr. Meyer Nissim, M.A., was elected by the Justices of the Peace on the 7th December 1915.

6. The following Councillors were absent from the meetings of the Corporation for the period shown below for reasons approved by the Corporation under Section 17 (*h*) of the Municipal Act :—

Name.	Period.
Mr. Joseph Baptista, L.C.E. (Bombay), B.A., LL.B. (Cantab).	From 16th October 1915 to 8th March 1916.
Mr. Khimji Hirji Kayani	From 20th August 1915 to 9th January 1916.

The Standing Committee.

7. Mr. Narayan Vishvanath Mandlik, B.A., LL.B., was appointed Chairman of the Standing Committee at the meeting held on the 7th April 1915, and he held that appointment throughout the year.

8. There were fifty-two regular meetings and three special meetings of the Standing Committee and fifteen meetings of the Sub-Committees thereof.

9. There were forty-nine attendances of members for the audit of Municipal Accounts and eighty for cheque signing.

10. The changes that took place during the year in the personnel of the Standing Committee were as follows :—

The Hon'ble Mr. Fazulbhoy M. Chinoy, C.I.E., died on the 21st July 1915, and in his place Mr. Vasantrao Anandrao Dabholkar was elected by the Corporation on the 9th August 1915.

11. The following is the list of Municipal Councillors who held office on the 31st March 1916 :—

Mr. PHIROZE CURSETJI SETHNA, J.P., *J. President.*

ABDUL HUSSEIN ADAMJI PEERBHOY, The Hon'ble Mr., J.P., *R* (C Ward)
ABDUL SATAR AYUB GAYA, Dr., L.M. & S., *R* (B Ward)
BALKRISHNA WASSOODEW PANDOORUNG, Mr., J.P., *G.*
BAPTISTA, JOSEPH, Mr., I.C.E. (Bombay), B.A., LL.B. (Cantab.), Bar-at-Law, *R* (E Ward)
‡§‖ BHALCHANDRA KRISHNA BHATAWADEKAR Sir, Kt., L.M., J.P., *R* (D Ward)
BYRAMJEE R. B. JEEJEEBHOY, Mr., J.P., *J.*
CASSAMALLY JAIRAJBHOY PEERBHOY, Mr., J.P., *R* (E Ward)
†§ CHIMANLAL H. SETALVAD, The Hon'ble Mr., B.A., LL.B., J.P., *U.*
* CHUNILAL VUBHUKANDAS MEHTA, Mr., M.A., LL.B., J. P., *R* (C Ward)
COWASJI JEHANGIR READYMONEY, Mr., B.A. (Cantab.), J.P., *J.*
*‡ DAVID, SASSOON, Sir, Bart., J.P., *G.*
D'MONTE, D. A., The Hon'ble Dr., M.D., L.R.C.P. (London), L.M. & S., M.R.C.S., J.P., *G.*
DHARAMSI JETHABHAI THACKER, Mr., B.A., LL.B., *R* (D Ward)
DINSHA RAMANJI PESTANJI MASTER, Dr., L.M.& S., J.P., *R* (C Ward)
††§ DINSHA EDALJI WACHA, The Hon'ble Mr., J.P., *R* (A Ward)
DINSHAW MANOCKJI PETIT, Sir, Bart., J.P., *J.*
EDWARDES, S. M., Mr., C.S.I., C.V.O., I.C.S., J.P., *J.*
**FAZULBHOY CURRIMBHOY EBRAHIM, The Hon'ble Sir, Kt., J. P., *R* (G Ward)
GORDON, F. F., Mr., J.P., *J.*
GULAM HUSEN CURRIMBHOY EBRAHIM, Mr., J.P., *J.*
HAJI SULEMAN ABDUL WAHED, The Hon'ble Mr., J.P., *G.*
HIRALAL DAYABHAI NANAVATI, Mr., B.A., LL.B., *R* (C Ward)
HORMUSJI PIROJSHA MODY, Mr., M.A., LL.B., *R* (D Ward)
HOOSEINBHOY ABDOOLABHOY LALLJEE, Mr., *R* (B Ward)
†‡** IBRAHIM RAHIMTOOLA, The Hon'ble Sir, Kt., C.I.E., J.P., *R* (B Ward)
INGLIS, D. M., Mr., J.P., *CC.*
JAMSETJI ARDASEER WADIA, Mr., J.P., *J.*
JAMSETJI JEJEEBHOY, The Hon'ble Sir, Bart., J.P., *J.*
JEHANGIR BOMANJEE PETIT, Mr., J.P., *R* (A Ward)
JEHANGIR DOSABHOY FRAMJI, Mr., I.S.O., J.P., *G.*
†JEHANGIR J. CURSETJI, Dr., M.D., L.R.C.P., L.R.C.S., *R* (C Ward)
KARAMALY PEERBHOY HAJI, Mr., J.P., *R* (B Ward)
KAVASJI EDALJI DADACHANJI, Dr., L.M. & S., J.P., *R* (D Ward)
KAZI KABIRUDDIN, Mr., Bar.-at-Law., J.P., *R* (E Ward)
KHIMJI HIRJI KAYANI, Mr., J. P., *R* (B Ward)
LISTON, W. G., Major, O. I.E., M.D., D.P.H., I.M.S., J.P., *J.*
•MoBAIN, J. A. D., The Hon'ble Mr., J. P., *R* (A Ward)
MADHAVJI VIRJI, Mr., B.A., LL.B., *R* (A Ward).
MAHOMEDBHOY CURRIMBHOY EBRAHIM, Mr., J.P., *G.*
MAHOMEDBHOY DATOOBHOY EBRAHIM, Mr., J.P., *R* (B Ward)
MAHOMEDBHOY HAJEEBHAI LALJEE, Mr., J.P., *J.*
MANAJEE RAJOOJEE KALEWAR, Rao Saheb, *R* (E Ward)
MILNE, J. S. WARDLAW, The Hon'ble Mr., J.P., *CC.*
MIRZA ALI MOHAMMED KHAN, Mr., M.A., LL.B., J.P., *G.*
†MORESHWAR CHINTAMAN JAVLE, Dr., J.P., *R* (G Ward)
MOSES, E., Dr., M.D., J.P., *G.*
MULJI B. BARBHAYA, Mr., J.P., *G.*
§MUNMOHUNDASS RAMJI, The Hon'ble Mr., J.P., *R* (C Ward)
*†NADIRSHAW H. E. SUKHIA, Dr., L.M. & S., L.V.S.C., F.R.S.I. (London), J.P., *R* (A Ward).
†† NARAYAN VISHVANATH MANDLIK, Mr., B.A., LL.B., J.P. *J* (*Chairman, Standing Committee*)
NISSIM, MEYER, Mr., M.A., J.P., J.
‡ NOWROSJI JEHANGEER GAMUDIA, Mr., J.P., *R.* (A Ward)
ORR, J. P., The Hon'ble Mr., C.S.I., I.C.S., J.P., *G.*
POONSEY HIRJI MEISHERI, Dr., L.M. & S., *R* (B Ward)
RAHIMTOOLA MEHERALLY CHINOY, Mr., J. P., *G.*
RAHIMTULLA CURRIMBHOY, Mr., B.A., *R* (F Ward)
† RAMCHANDRA BHASKAR MANTRI, Mr., J.P., *R* (D Ward)
RAMKRISHNA SHRIKRISHNA NAVALKAR, Mr., B.A., LL.B., *R* (C Ward).
RATANSHA PEMULJI NARIMAN, Dr., M.D., F.R.M.S., J.P., *J.*
* SALEBHOY KARIMJI BARODAWALLA, Mr., J.P., *R* (E Ward)
*SHAVAKSHA SORABJI BATLIWALA, Dr., L.M. & S., J.P., *R* (F Ward)
SHERIF DEVJI CANJI, Mr., *R* (B Ward)
SIMCOX, A. H. A., Mr., I.C.S., J.P., *G.*
SIMKIN, F. H. Mr., J.P., *G.*
SOONDERDAS NARANDAS, Rao Bahadur, B.A., LL.B., J.P., *R* (C Ward)
TEMULJI BHIKAJI NARIMAN, Sir, Kt., L.M. & S., F.C.P.S., J.P., *U.*
* TOD, A. M., Mr., J. P., *G.*
*‖ VASANTRAO ANANDRAO DABHOLKAR, Mr., J.P., *G.*
VITHALRAO KRISHNAJI VANDEKAR, Rao Bahadur, J.P., *J.*
* WHYTE, A. H., Mr., J. P., *G.*
WITTET, G., Mr., J. P., *J.*

Note.—The letters against the names signify—*R*, that the Member was elected by the Ratepayers; *J*, by the Justices of the Peace; *CC*, by the Chamber of Commerce; *U*, by the University; and *G*, appointed by Government.

Note.—The marks against the names signify—*, Member of the Standing Committee; †, Member of the Schools Committee; ‡, Member of the Board of the City of Bombay Improvement Trust; §, Member of the Board of the Victoria Jubilee Technical Institute; ‖, Representative on the Board of Management of the Acworth Leper Asylum at Matunga; ** Representative on the Board of Trustees of the Prince of Wales Museum of Western India.

II—Heads of Departments.

12. Khan Bahadur B. D. Banaji, Assessor and Collector, was on privilege leave from 21st August to 30th September 1915, during which period Mr. R. G. Robottom, First Assistant Assessor, acted for him.

13. Mr. R. P. Masani, M.A., Municipal Secretary, was on privilege leave from 19th April to 2nd July 1915, during which period Mr. A. A. Moulvi, B.A., Assistant Municipal Secretary, acted for him.

14. Mr. R. N. Coyaji, Revenue and Refund Audit Officer, was on privilege leave from 1st September to 30th November 1915, Mr. E M. Taleyarkhan, Acting First Assistant Assessor, acted as Revenue and Refund Audit Officer from 9th to 30th September 1915 and Mr. R. G. Robottom, First Assistant Assessor, from 1st October to 30th November 1915.

15. Mr. T. C. Greenop, Chief Officer, Fire Brigade, was on combined leave from 6th June to 20th September 1915. The late Mr. R. Thompson, the then Head Foreman of the Brigade, acted as Chief Officer, Fire Brigade, till his death, *i.e.*, up to 15th August 1915 and the present Head Foreman Mr. H. Lainton acted for the remaining period.

16. Mr. L W. Michael, Superintendent of Markets, was on privilege leave from 24th January to 23rd February 1916, during which period Mr. R. G. Robottom, First Assistant Assessor, acted for him.

17. Mr. A. G. Christiansen, M.S.E., A.M.I.M.E., Storekeeper, was on privilege leave from 20th November 1915 to 19th February 1916, during which period Mr. K. N. Ranina, Assistant Storekeeper, acted for him.

18. Mr. C. D. Mahaluxmivala, Superintendent, Municipal Gardens, was on privilege leave from 6th September to 17th October 1915, during which period Mr. J. M. Doctor, C.M.Z.S., Assistant Superintendent, Zoological Collection, acted for him.

19. The following officers continued in their respective appointments throughout the year :—

Dr J. A. Turner, C.I.E., M.D., D.P.H., Executive Health Officer.

Mr. James W. Mackison, B.Sc., M. Inst. C.E., Executive Engineer.

„ N. Maughan, M.I.C.E., M.R.S.I., Deputy Executive Engineer, Drainage.

„ B. H. Hewett, A.M.I.C.E., Deputy Executive Engineer, Mechanical Branch.

„ H. J. Trivess Smith, M.I.C.E., M.I.M.E., Hydraulic Engineer.

„ W. E. Waite, Chief Accountant.

„ David Robertson, Deputy Accountant.

„ P. P. Vagh, Superintendent of Licenses.

„ Cecil L. Burns, Curator and Secretary, Victoria and Albert Museum.

„ D. G. Padhye, M A., Secretary, Schools Committee.

Rao Saheb B. Rama Rao, Assistant to Commissioner and Superintendent of Printing and Stationery.

III.—Financial.

I.—General.

20. The Revenue realised during the year aggregated Rs. 1,38,31,070 while the expenditure amounted to Rs. 1,28,03,870, thus resulting in a surplus of Rs. 10,27,200. The year opened with a working Cash Balance of Rs. 57,32,139 including Rs. 3,91,944 being the value of stores in hand and closed with a balance of Rs. 67,59,338, of which Rs. 9,98,761 represent renewals for 1916-1917 and previous years, Rs. 3,54,171 the value of stores in hand, Rs. 1,00,000 the minimum Cash Balance required by law and Rs. 11,01,288 the contribution payable to the City Improvement Trust in the year to follow. The unhypothecated Cash Balance thus amounted to Rs. 42,05,118. This sum is in my opinion not too large in view of the growing expenditure of the City and the restrictions put upon our borrowings by Government. The surplus is at the date of writing entrenched upon to the extent of Rs. 7,26,455 on account of advances for projects financed from Loan Funds pending the raising of a new loan and to the extent of a half lakh for revenue purposes.

II.—Income.

21. The rates of taxation continued to be the same as in the preceding year. The income realised was however Rs. 14,17,704 in advance of 1914-15. The chief factor contributing to this excess was the "Town Duties" which brought in Rs. 10,86,787, the "General Tax" accounting for an increase of Rs. 3,96,301, the "Water Tax" for an increase of Rs. 1,07,008 and the "Halalkhore Tax" for Rs. 50,939. There were decreases under "Market Receipts" Rs. 13,540, "Miscellaneous Receipts" Rs. 1,81,325, "Miscellaneous Fees" Rs. 15,539, "Actual Profit on sale of stores to Contractors" Rs. 14,022 and under "Interest and Profit on investments" Rs. 22,010. The reasons for the variations have been explained by the Chief Accountant in para. 11 of his report.

22. With the increase of income there was a corresponding increase in the incidence of taxation per head which rose from Rs. 10-14-8 in the previous year to Rs. 12-9-8 in the year of report.

23. As compared with the Revised Estimates, there was an increase in the income of the year of Rs. 3,96,070, the reasons for which have been explained in para. 20 of the Chief Accountant's report.

III.—Expenditure.

24. The total expenditure for the year reached the figure of Rs. 1,28,03,870 showing an increase of Rs. 3,15,223 over the outlay of the preceding year. The increase as usual occurred under the "Public Works" Rs. 1,25,078. "Health Department" Rs. 90,494 and "Debt" Rs. 1,72,570 and the reasons underlying them will be found dealt with in para. 42 of the Chief Accountant's report. Eliminating the abnormal and non-recurring charges from the expenditure, the Chief Accountant puts the annual permanent increase at Rs. 4,50,000 (*vide* para. 43 of his report) as against the permanent increase in income of Rs 2,24,000 (*vide* para. 26 *ibid*). These figures will require to be carefully considered when our future requirements are being framed.

25. Out of the total sanctioned grants aggregating Rs. 1,41,19,265 a balance of Rs. 13,15,395 remained unexpended at the close of the year. Of this Rs. 9,98,761 have been renewed for expenditure in 1916-17, leaving a sum of Rs. 3,16,634. These savings in expenditure and the renewals of grants have been dealt with in paras. 34 to 41 of the Chief Accountant's report.

26. The additional grants sanctioned during the year aggregated Rs. 2,49,607 against Rs. 4,50,851 in the preceding year.

IV.—Loan Works Expenditure.

27. The total outlay on Loan Works amounted to Rs. 28,56,540 against Rs. 73,42,282 in the preceding year, showing a decrease of Rs. 44,85,742 due to heavier outlay on the Tansa Reduplication Works in the previous year. As compared with the Revised Estimates the actual expenditure does not show large variations, *vide* para. 53 of the Chief Accountant's report.

V.—Plague Expenditure.

28. There was a decrease of Rs. 4,721 in the expenditure on Plague operations which amounted to Rs. 1,22,912 against Rs. 1,27,633 in the preceding year. From the first outbreak of Plague upto the close of the year under report the total outlay aggregated Rs. 80,97,440.

VI.—Capital Debt.

29. The loans raised during the year aggregated Rs. 57,01,500 of which Rs. 14 lakhs represented the 2nd instalment of the 20 lakhs Loan for Street Improvements, Rs. 43 lakhs for Drainage, Water, Roads and Miscellaneous Works and Rs. 1,500 the balance of 70 lakhs Loan for Tansa Reduplication. Owing to the difficulties anticipated in the flotation of the loans in the market, it was decided to borrow Rs. 40 lakhs by a private arrangement with the Bank of Bombay reserving Rs. 17 lakhs for our Sinking Fund purposes. The total Capital Debt of the Corporation consequently increased from Rs. 6,88,44,972 to Rs. 7,45,46,472. Deducting the amount of Rs. 1,45,697 paid towards the reduction of Vehar Debt and the Drainage Loan of 1878, the Capital Debt stood at Rs. 7,44,00,775 at the close of the year. Against this the total Sinking Fund invested upto 31st March 1916 amounted to Rs. 1,65,04,880, leaving a net debt liability of Rs. 5,78,95,895. The heavy fall in the prices of public securities has had an adverse effect on our Sinking Fund Investments and the question of opening an Investment Reserve Account for adjustment of depreciation requires consideration.

VII.—Assets and Liabilities.

30. The Assets and Liabilities of the Municipality as compared with last year are as under :—

—	At the close of 1914-15.	At the close of 1915-16.	Increase.
	Rs.	Rs.	Rs.
Assets	10,49,07,400	11,29,09,121	80,01,721
Liabilities	7,19,18,303	7,94,04,336	74,86,033
Excess of Assets over Liabilities	3,29,89,097	3,35,04,785	5,15,688

The distribution of the assets and the reasons for the increases are given in paras. 56 and 61 of the Chief Accountant's report.

The total liabilities excluding the amount of Rs. 17,15,289 shown as book value of Municipal Lands at Agripada, &c., transferred to the City Improvement Trust amount to Rs. 7,76,89,047, of which Rs. 7,44,00,775 represent the capital debt, Rs. 10,39,599 Contractors' and other deposits, Rs. 9,98,761 renewals, Rs. 11,01,288 contribution payable to the City Improvement Trust in 1916-17 and Rs. 1,48,624 undischarged liabilities and miscellaneous items.

Stores Account.

31. The balance of Reserve Stock on 31st March 1916 amounted to Rs. 3,54,171 against Rs. 3,91,994 at the close of the preceding year, thus showing a decrease of Rs. 37,823. There was also a slight reduction in the balance of Surplus and Obsolete Stores.

Street Improvements.

32. The total liabilities after allowing for time-barred claims on account of set backs amounted to Rs. 8,14,587 upto the 30th June 1916 against which we have sanctioned funds aggregating Rs. 3,71,587, thus showing an excess of Rs. 4,43,000 which with the cost of further acquisitions enumerated in para. 75 of the Chief Accountant's report gives a gross total of Rs. 11.82,500.

Test Audit.

33. The Chief Accountant's Test Audit was continued throughout the year.

Miscellaneous Funds.

34. The Municipal Fire and Accident Insurance Fund stood at Rs. 2,16,978 at the close of the year, the Worn-out Water Mains Renewal Fund at Rs. 5,69,486 and the Net Premia at Rs. 1,34,165, *vide* paras. 62 to 64 of the Chief Accountant's report.

Fire Tax.

35. The surplus to the credit of the Fire Tax amounted to Rs. 1,25,034 at the close of the year, *vide* para. 78 of the Chief Accountant's Report.

36. The comparison of the net revenue and net expenditure for 1914-15 and 1915-16 is shown below in accordance with the Standing Committee's Resolution No. 12212, dated 3rd February 1892 :—

Particulars.	1914-15.	1915-16.
	Rs. a. p.	Rs. a. p.
Net Revenue after deducting Refunds, Drawbacks and charges in respect of Assessment and Collection and granting of Refunds.		
General Tax	47,33,456 8 8	51,13,599 12 7
Fire Tax	6,933 12 6	14,681 12 0
Wheel Tax and Tolls	5,13,420 15 10	5,12,819 9 2
Town Duties	7,84,309 3 3	18,37,710 7 3
Receipts from Government for Liquor Licenses and Tobacco Duty	4,35,785 11 11	4,48,394 3 1
Water Revenue (net)	1,06,074 15 3	Dr. 23,529 12 7
Market Receipts	4,00,885 11 5	3,87,488 9 6
Returns from other Property and Miscellaneous	7,22,344 12 10	4,68,510 7 9
Net Receipts ... Rs.	77,03,211 11 8	87,59,675 0 9
Deficit	*39,824 14 3	... ..
	77,43,036 9 11	87,59,675 0 9
Net Expenditure after deducting Receipts.		
General Superintendence	2,73,853 0 5	2,63,356 11 8
Public Gardens	75,235 6 1	73,203 8 4
Public Works (Engineering Department excluding Water Works)	22,14,803 15 6	22,73,686 7 3
New Works (excluding Water Works)	1,89,307 11 7	2,02,190 14 2
Public Health Department (excluding Markets)	5,40,345 8 7	5,48,291 3 2
Municipal Debt (excluding Water Works)	21,26,422 1 0	20,04,815 2 8
Primary Education	4,17,864 0 0	4,62,000 0 0
Education	85,360 0 5	81,344 12 3
Hospitals	4,39,260 0 0	4,37,810 0 0
Pensions, Gratuities and Compassionate Allowances	69,977 7 2	73,563 7 4
Miscellaneous	2,06,036 3 9	1,71,880 13 9
Contribution to the City Improvement Trust	9,76,937 13 10	10,17,420 1 8
Plague Expenses	1,27,633 5 7	1,22,911 9 2
Net Expenditure ... Rs.	77,43,036 9 11	77,32,474 11 5
Surplus	.....	10,27,200 5 4
Total ... Rs.	77,43,036 9 11	87,59,675 0 9

* This deficit is exclusive of Rs. 35,455 utilized from Surplus Cash Balance for the write-off of the cost of Halalkhors' Chawl at Vincent Road sold to the City Improvement Trust.

37. The Revenue, Expenditure and Balances of the last five years have been contrasted in the following table :—

—	1911-12.	1912-13.	1913-14.	1914-15.	1915-16.
	Rs.	Rs.	Rs.	Rs.	Rs.
Revenue	(a) 1,26,55,789	(e) 1,27,41,589	(i) 1,28,76,501	(m) 1,24,13,366	(q) 1,38,31,070
Expenditure	(b) 1,14,84,562	(f) 1,16,81,587	(j) 1,20,48,926	(n) 1,24,53,191	(r) 1,28,03,870
Closing balance (including recoverable advances to Loan Works, Reserve Stock, &c., and excluding Minor Deposits, &c.) ...	(c) 43,29,894	(g) 50,79,844	(k) 58,07,419	(o) 57,32,139	(s) 67,59,339
Add—Recoverable Revenue outstanding ...	62,797	43,679	42,218	48,400	32,000
	43,92,691	51,23,523	58,49,637	57,80,539	67,91,339
Deduct—Uncompleted Works, &c., and unexpended balances of the grants which were required for payment in the following year ...	(d) 8,96,295	(h) 10,17,956	(l) 10,08,232	(p) 10,65,310	(t) 9,98,762
Net Working Balance available for requirements of the following year	(c) 34,96,396	(g) 41,05,567	(k) 48,41,405	(o) 47,15,229	(s) 57,92,577

(a) Notwithstanding that the rates of taxation continued to be the same as in last year, there were large increases under "Taxation Proper" and "Services rendered" and also under "Returns from Property & Miscellaneous."

(b) Includes increases principally under Public Works, New Works, Health Department, Contribution to the C. I. Trust and Debt.

(c) Excluding Rs. 4,60,542 on account of the value of Reserve Stock on hand on 31st March 1912, the net closing balances amounted to Rs. 38,69,352 and Rs. 30,35,854, respectively.

(d) Includes the large amounts required to be renewed under Fire Brigade, New Works and Public Health on account of supplies of engines, pipes, motors, etc., having been delayed owing to strikes in England.

(e) Notwithstanding the transfer of interest realized on Sinking and Special Funds to a suspense head and that the rates of taxation continued to be the same as in the preceding year, there were large increases under "Taxation Proper" and "Services rendered."

(f) This is exclusive of the investment of the interest realized on Sinking and other funds transferred to a suspense head. It includes, however, increases principally under "General Superintendence," "Assessment and Collection Department," "Fire Brigade," "Public Works," "Health Department," "Miscellaneous," "Contribution to the City Improvement Trust" and "Debt."

(g) Excluding Rs. 4,50,267 on account of the value of Reserve Stock on hand on 31st March 1913, the net closing balances amounted to Rs. 46,29,577 and Rs. 36,55,300, respectively.

(h) Includes the large amounts to be renewed chiefly under New Works, Public Works, Health Department, Gardens, Debt and Miscellaneous.

(i) Despite the reduction in the General Tax from 10½ % to 10 % there were increases under "Taxation Proper", "Services rendered" and "Returns from Property and Miscellaneous." This figure is exclusive of interest realised on Sinking and Special Funds.

(j) This is exclusive of Rs. 1,00,000 utilised for the write-off of the balance of plague expenditure advanced from Loan Funds. It also excludes the investments of interest realised on Sinking and other funds.

(k) Excluding Rs. 4,25,894 on account of the value of Reserve Stock on hand on 31st March 1914, the net closing balances amounted to Rs. 53,81,625 and Rs. 44,15,511, respectively.

(l) Includes the large amounts to be renewed chiefly under New Works, Public Works, Gardens, Public Health Department and Debt.

(m) In this year the Fire Tax was reduced from ½ % to ⅜ % and Water Tax from 3¾ % to 3 %.

(n) This is exclusive of Rs. 35,455 utilized from Surplus Cash Balance to write-off the cost of Halalkhors' Chawl at Vincent Road sold to the City Improvement Trust.

(o) Excluding Rs. 3,91,994 on account of the value of Reserve Stock on hand on 31st March 1915, the net closing balances amounted to Rs. 53,40,145 and Rs. 43,23,235.

(p) Includes large amounts to be renewed chiefly under New Works, Public Works, Gardens, Public Health Department and Debt.

(q) Though the taxes were levied at the same rate as in the preceding year there were large increases under Property Taxes partly due to payment of arrears by Government and Port Trust in consequence of the revised award and enhancement of the rateable value of existing properties. It also includes increases in receipts from "Town Duties."

(r) Includes increases principally under "Public Works," "Health Department," "Debt" and "Contribution to the City Improvement Trust."

(s) Excluding Rs. 9,98,762 on account of renewals, the net closing balance amounted to Rs. 57,60,577.

(t) Includes large amounts to be renewed chiefly under "Public Works," "Health Department," "New Works" and "Debt."

IV.—Assessment and Collection of Revenue.

38. The total amount collected under all heads exclusive of miscellaneous receipts and toll fees was Rs. 94,63,610-8-3 against Rs. 88,97,617-7-1 last year, showing an increase of Rs. 5,65,993-1-2. The final gross assessment was Rs. 6,34,16,191 against Rs. 5,98,41,390. This was assessed on 62,356 properties against 61,990 properties in the previous year. The assessment for General Tax was Rs. 5,45,03,932 against Rs. 5,14,64,858 for the previous year, giving an increase of Rs. 30,39,074. The number of buildings newly erected, demolished and enlarged was 831, 612 and 387 respectively. Complaints against assessment were 5,079 against 4,430 in the previous year. The demand for the water rate was Rs. 22,45,408 against Rs. 21,41,018, showing an increase of Rs. 1,04,390.

39. The demand for Halalkhor Service was Rs. 14,83,237 against Rs. 14,35,409, showing an increase of Rs. 47,828. In all the total demand for property taxes was Rs. 92,95,107-3-1. From this amount the sum of Rs. 87,602 was allowed as one-fifth drawback of the General Tax, the result of 9,517 claims. The outstandings on 31st March 1916 were Rs. 5,433 on account of former years and Rs. 34,704 for the year under report, making a total of Rs. 40,137 against Rs. 54,597 of the previous year.

40. The demand on account of the tax on vehicles and animals was Rs. 2,47,609 against Rs. 2,47,225 in the previous year. Out of the total demand including previous years' arrears of Rs. 2,49,682, Rs. 2,271 were outstanding at the end of the year. One thousand three hundred and forty-six motor cars and three hundred and thirteen motor cycles were taxed against 1,116 and 252 respectively in the previous year.

41. Miscellaneous receipts amounted to Rs. 38,885 against Rs. 38,916. while the receipts from the toll rights at the Mahim and Sion Causeways amounted to Rs. 22,433 against Rs. 22,966 in the previous year.

42. There were 21 appeals to the Chief Judge of the Small Causes Court, of which 19 were settled out of Court and withdrawn by the appellants, 1 was time barred and 1 was pending at the close of the year.

43. It is satisfactory to note that notwithstanding the conditions brought about by the war the assessable value of properties has maintained a steady upward course.

Revenue Audit.

44. The books and balances of the Ward Clerks in the several Ward Offices were duly examined at the end of each quarter and the bills were checked in detail after comparison with the Head Office accounts. The Assessment Books in the Head Office were also examined to ascertain that no property liable to taxation had escaped assessment. The Vehicle and Animal Tax Book maintained under section 186 of the Municipal Act was examined and checked. The revenue from the tax on Public Land Conveyances licensed by the Commissioner of Police under Act VI of 1863 was audited and certificates of issue of licenses supplied by that Officer checked with the register kept in the Chief Accountant's Office. The revenue receipts and vouchers of the different departments were also checked. The number of claims to one-fifth drawback under section 158 (2) of the Municipal Act scrutinised aggregated 9,517, of which 5,696 were admitted. The number of complaints against valuation under section 163 of the Municipal Act heard by the Revenue and Refund Audit Officer aggregated 730. The number of decisions on complaints against amendments under section 167 of the Act scrutinised amounted to 288. The number of claims sanctioned for refund on account of vacancy under sections 174 to 179 of the Act and on account of over-collection aggregated 2,368, representing Rs. 72,968-12-8.

Town Duties.

45. The total collection for the year amounted to Rs. 36,60,101-2-10 against Rs. 26,27,757-0-11 for the previous year, while the amount refunded was Rs. 16,93,443-3-0 against Rs. 15,82,067-12-0, the net revenue being thus Rs. 19,66,657-15-10 against Rs. 10,45,689-4-11 in the previous year, showing an increase of Rs. 9,20,968. The increase in the net revenue is under all the heads of articles liable to town duty, except beer, in which there is a slight decrease. This is due to the partial restoration of trade to normal conditions which in the preceding year had been seriously affected by the outbreak of the war and the exodus of the population. The number of refund claims was 59,941 against 53,594 in the previous year.

V.—Public Works.

Drainage.

46. The engines and pumps in No. 2 (new) pumping station at Love Grove worked fairly satisfactorily during the year. Owing however to the non-completion of the low-level outfall, the higher lift entailed in pumping through the old high level outfall during the fair season subjected the pumps to excessive wear and breakages. Some of the broken parts were replaced during the year and orders for others have been placed with the Lilleshall Company, the manufacturers of the plant, but owing to the war the firm has not been able to deliver the parts. In the meantime temporary repairs have been effected. To minimise as far as possible the chances of further breakages it has been decided in consultation with Mr. G. Midgley Taylor to attach a larger air vessel to the delivery main of the pumps. The machinery in the Screening and Dredging Chambers worked fairly satisfactorily during the year. On the closing down of the new low-level outfall works for the monsoon the completed portion of the outfall was again brought into use from 28th May 1915 and during the monsoon the new pumps were assisted by the old Worthington pumps in No. 1 station in maintaining a free outfall for an aggregate working period of 305 hours and 35 minutes. During the greater part of this period the assistance of one engine only was found sufficient and it was only between the 25th and 30th June when a total rainfall of 35·84 inches was recorded at Love Grove that it was deemed necessary to keep two engines continuously at work. Pumping through the high level outfall was reverted to from 1st October on the resumption of work on the new outfall. The results of the increase in the water supply owing to the duplication of the Tansa Main began to be seriously felt towards the close of the year and the engines in the new station were unable to prevent a surcharge in the main sewer during the hours of maximum flow between 8 A.M. and 2 P.M. As the old high level outfall is not capable of dealing with the additional quantity of water, assistance from the old pumping station is of no avail in meeting the emergency. A scheme for laying a temporary bye-pass pipe from the completed portion of the new outfall at an angle to the line of the present work is under consideration. By this means it is proposed to discharge the sewage during the fair season. For supplementing the pumping plant at the stations to deal with the increased water supply consequent on the duplication of the Tansa Main a preliminary design of the plant forwarded by Mr. G. Midgley Taylor consisting of five electrically driven centrifugal pump units of 15 million gallons capacity each is under the consideration of the Executive Engineer. It is however feared that, owing to the situation created by the war, it will not be possible to take any definite steps towards installing the much needed addition until normal conditions are restored.

47. The Love Grove low-level sewage outfall works were continued throughout the year. The total length of outfall laid up to the end of the year was 1,225 feet. A walking gantry which would have played an important part in the prosecution of the work was lost in transit to India, the ship carrying

it having been sunk in November 1915. As an alternative it was proposed to carry on the work by means of a crane. As enquiries for a suitable Titan Crane however proved fruitless and as no appreciable progress could be made without either a gantry or a crane and the monsoon was approaching, it was deemed advisable to terminate the services of Mr. Blacker, the Resident Engineer and of the four divers. The other staff was also dispensed with at the close of the year. The total expenditure incurred on works up to the end of the year amounted to Rs. 11,63,926-7-2. Considerable progress will have been made before the work is shut down for the monsoon and several additional lengths of pipe will have been laid and it is hoped that it will be possible to use the new outfall not only in the monsoon as was done last year but also during the fair season instead of using the old outfall, without any increase in such nuisance as now exists. This will be a great relief to the new engines which are not designed to pump up to the extra height required by the old outfall.

48. The machinery at the Love Grove Air Compressor Station and the several Ejector Stations in the Parel, Chinchpokli, Agripada, Malabar Hill and Mazagon Districts worked fairly satisfactorily during the year and the total quantity of sewage lifted by the ejectors was about 1,773½ million gallons. A part of the 15″ cast iron sealed sewage main in Fergusson Road was renewed during the year and the rest of it is being renewed in instalments. About 1,720 feet of the 8″ steel sewage main in Warden Road between the Mahaluxmi battery and Pedder Road was replaced by a cast iron main of 12 inches diameter. The substitution of the two ejectors of 250 gallons capacity each at Tank Bunder by the pair of 750 gallon ejectors removed from the junction of Elphinstone and Carrol Roads was completed during the year.

49. The machinery of the Colaba Air Compressor Station and the five Ejector Stations served therefrom worked satisfactorily during the year, but there was surcharge in the sewers of No. 4 District during the monsoon owing to the insufficient capacity of the ejectors serving the district to deal with the heavy flow. The total quantity of sewage lifted during the year was about 527½ million gallons showing an increase of 21½ million gallons on the previous year.

50. On account of the war it has not been possible to make any progress during the year with the scheme for the diversion of the storm-water channel from Love Grove to Worli and the provision of pumps at Worli for the disposal of storm-water. The 10″ centrifugal pump installed at the storm-water outlet at Worli for the removal of the stagnant water from the low-level channel during the fair season worked satisfactorily and prevented much of the flooding of the low-lying areas adjacent to the channel which formerly took place during neap tides.

51. The first section of the additional ovoid sewer from the Love Grove Pumping Station to Clerk Road was completed on 14th May 1915. This work is connected with the duplication of the main sewers required to deal with the additional calls on the drain consequent on the duplication of the Tansa supply. The section referred to was brought into use before the last monsoon, a connection having been made between the new sewer and the old sewer at Clerk Road. The ovoid sewer in Clerk Road was also disconnected from the old main sewer and connected to the new sewer, which resulted in a considerable improvement in the working of the Clerk Road sewer. Tenders for the second section of the ovoid sewer from Clerk Road to the junction of Lamington Road and Gilder Lane were invited and resulted in the acceptance of a tender amounting to Rs. 3,43,685. The work was in progress at the close of the year. The total certified expenditure on the two sections up to the end of the year amounted to Rs. 5,87,879. Mr. Midgley

Taylor's further report on the sewerage of the north of the Island with special reference to the type of the power to be adopted at the Pumping Station is still under consideration. In the meantime the work of constructing the main sewers, the plans and estimates for which have received the approval of the Corporation has been deferred until financial conditions improve.

52. Smaller drainage works amounting to about Rs. 89,000 were carried out during the year. The work of providing new pattern half-sized water entrances in place of the old Cast Iron entrances and providing new Cast Iron frames, gratings and fair weather concrete covers to the existing water gullies in A Ward was carried out at a total cost of Rs. 21,140. 340 house drainage street connections and 133 storm-water connections were made during the year. The total number of improved concrete covers provided over water entrances upto the close of the year amounted to 1,346. Action to get properties in the Malabar Hill District connected with the sewers was continued during the year; five notices were served and all of them were complied with.

Regulation of Streets and Buildings.

53. The number of applications for permission either to build or rebuild houses, etc., aggregated 3,461 against 3,558 in the previous year. 2,363 notices were issued against houseowners under various sections of the Municipal Act. In 674 cases prosecutions were instituted in the Magistrates' Courts against houseowners for not complying with the notices served on them against 711 in the previous year. Out of these 674 cases the parties in 166 complied with the Municipal requirements before the service of process and the cases against them were therefore withdrawn. In 311 cases the parties were warned and discharged, in 161 cases they were convicted and fined and 36 cases were pending at the close of the year. 338 notices were issued for the removal of unsafe and dangerous or ruinous buildings; 268 of these were complied with either partly or wholly and in 21 cases the structures were removed by the Municipality and 49 cases were pending at the close of the year. 26 buildings or parts of buildings fell during the year. In 23 cases no injury was done and in the remaining 3 cases 4 persons were injured. Action was taken for the removal of 112 inflammable and insanitary huts; of these 83 were removed and 29 were pending at the close of the year. Seven cases had to be submitted to the Standing Committee for the removal of unauthorized work. Nine notices were issued under section 378 of the Municipal Act for the improvement of insanitary buildings. In 4 cases the requirements were complied with and the remaining five cases were pending at the close of the year.

Roads.

54. The area of roads metalled (full metalling and full patching) during the year was 5,551,431 square feet at a cost of Rs. 3,14,377, the rate for full metalling working out to 10·87 pies per square foot which is less than the standard rate of Rs. 5-12-0 per 100 square feet but more than the last year's rate of Rs. 5-4-1 per 100 square feet. The increase over the last year's rate was due to the price of metal during 1915-16 being 35 per cent. more than that of 1914-1915 as also to the fact that instead of laying the usual 3″ coat many of the roads were bottomed with rubble packing whilst on others from 6″ to 9″ of metal was used to bring them up to a proper camber and enable them better to stand the effects of heavy tractors until such time as proper foundations can be provided. The scarcity of labour due to the war continued to be felt at the beginning of the year and the supply of materials was also unsatisfactory. The protracted monsoon and the increase of heavy tractors contributed largely to the damaged condition of the roads. Out of 168 miles of roads 29½ miles were disturbed in connection with water pipes, drains, gas and electric supply mains, the operations of the Bombay Electric Supply and Tramways Company, Limited

the Bombay Gas Company, the Telephone Company and the Tata Hydro Electric Company being responsible for about 17¾ miles. The tarring of roads was continued during the year and the area so treated was 205,508 square yards. An area of 32,277 square yards was also grouted with tar and the total cost of tarring operations amounted to Rs. 1,18,690. The treatment of roads with Akonia has been temporarily stopped on account of its cost. A portion of Frere Road from Carnac Road to Carnac siding has been paved as an experiment with Jamba timber blocks and the adjoining strip of road surface has been treated with bituminous macadam, both the strips having previously been bottomed with cement concrete. A portion of the western side of Frere Road between Musjid Siding and Thana Street has been treated with bituminous metal. The result of the experiments is being watched. Fourteen important roads were widened during the year by the addition of set-backs. In all land measuring 8,166 square yards estimated to cost Rs. 2,13,190 was added to the streets. The actual sum expended for set-backs during the year, including a sum of Rs. 3,57,682 on account of the unadjusted charges for 1915-16 and previous years, was Rs. 7,08,791-0-11. The work of extending Lady Hardinge Road eastwards to the G. I. P. Railway Level Crossing at Matunga which was taken in hand in November 1915 was in progress at the close of the year. The portion of Reay Road between Victoria Road and the Harbour Defence Yard was taken over from the Port Trust. Action under section 305 of the Municipal Act was taken in respect of eight private streets. 332 new trees were planted during the year. Satisfactory progress was made during the year in the forming of footpaths and providing pavements at the side of the roads. There were no extensions or renewal of tram lines during the year. The number of tram cars running in the City classified according to the different types approved by the Corporation with the total carrying capacity of each car during the year was as under :—

50 bogie cars each carrying 52 persons sitting and in addition 8 standing during rush hours.

50 bogie cars each carrying 20 persons standing and 44 persons sitting.

49 single truck cars each carrying 32 passengers.

1 single truck car carrying 40 persons sitting.

30 trains each carrying 70 passengers.

10 trains each carrying 78 passengers.

Overbridges.

55. The work of the Currey Road Overbridge over the G. I. P. Railway was completed during the year except the approach along DeLisle Road which will shortly be commenced by the Railway Company. As no funds have been sanctioned by the Railway Board for the Clerk Road Overbridge over the B. B. & C. I. Railway its construction has been deferred. The question of the width of the DeLisle Road Overbridge over the B. B. & C. I. Railway having now been decided by the Corporation negotiations have been opened for the acquisition of the additional properties required for the 80 feet width. The final alignment of the Dadar Overbridge has been settled and detailed plans are being prepared by the Railway Authorities. The certified expenditure payable by the Municipality for all the overbridges during the year amounted to Rs. 20,072-11-8. The widening and raising of the Elphinstone Bridge and its two approaches by the G. I. P. Railway was completed and the bridge was taken over by the Municipality during the year for maintenance.

Public Lighting.

56. The total number of gas lamps at the end of the year was 6,253 being an increase of 134 over the previous year and the total number of kerosine oil lamps was 1,344 being a decrease of 13 lamps, which were replaced with gas lamps. The total cost of gas lighting amounted to Rs. 3,92,285-9-9 exclusive of the charges of the high pressure gas lighting for experimental purposes and the net cost of kerosine oil street lighting amounted to Rs. 29,887-1-1. The demonstrations which commenced on 8th February 1915 with high power electric and gas lamps in certain streets to test the comparative merits of gas and electric lighting were continued till 31st August. The quality of the light provided was very superior to the present standard of lighting. The final decision could however be arrived at only after the initial cost of both the systems was ascertained. As this was not possible owing to the conditions brought about by the war, the consideration of the question has been deferred.

Municipal Workshops.

57. The Municipal Workshops were fully employed during the year in the repair of plant and machinery used by the different departments and in the manufacture of new articles. There was also a considerable accession of work during the year on account of the supply of a large quantity of cut timber and machinery for the Love Grove Outfall Works. The Workshops made an estimated profit of Rs. 13,777-0-3 on the year's working. The bills preferred to the various departments amounted to Rs. 2,88,219-5-0. The masonry and steel work of the second section of the New Workshops at Foras Road was completed during the year. The serviceable machinery from the old Workshops is being gradually removed and the approval of the Corporation has been obtained to the plans and estimates for the third and final section.

58. The four motor cars provided for the Engineering and Health Departments were in active use running 27,358 miles at a cost of 5·19 annas per mile against 5·26 annas per mile in the previous year.

Works in Connection with Plague Measures.

59. The sanitary, water and lighting arrangements at Health Camps erected by private parties and by the Municipality were, as in former years, provided at Municipal expense.

60. The details of the several Municipal buildings and works constructed during the year under the supervision of the Executive Engineer are given in the report of the Public Works Department.

Water Works.

61. *Tansa Lake.*—The rainfall was 92·08 inches against 132·80 inches in 1914 or 4 per cent. below the average of the preceding five years. The lake began to overflow on 6th August when the rainfall amounted to 59·53 inches and continued to overflow until 24th October. The total quantity of water that passed over the waste water weir was about 23,013 million gallons. The quantity of water delivered into the duct at the lake was about 10,719 million gallons, of which 8,128 million gallons were received in the City, the balance 2,591 million gallons having been partly discharged into the Vehar Lake and partly lost by evaporation, overflow from syphon heads and leakage along the duct. The introduction of increased supply from Tansa has caused an increase in the leakage along the duct owing to the additional depth of water. Two serious leaks were observed at miles 40—2,103 feet and 41—4,984 feet. These have been temporarily repaired and the work of permanent repairs to them is in hand. The water in the lake continued to be of a high standard of purity.

62. *Vehar Lake.*—The rainfall was 91·60 inches against 108·73 in 1914 and was 12½ per cent. above the average of the previous five years. The lake did not overflow during the year. The highest level attained was 256·65 feet above T. H. D. or 7·85 feet below the waste weir and 26·15 feet above the lowest outlet. The total quantity of water received in the City from the Vehar Lake was 4,710 million gallons giving an average of 13 million gallons per day. The purity of the water in the lake was well maintained.

63. *Tulsi Lake.*—The rainfall was 85·46 inches against 116·94 inches in 1914 and was 4 per cent. below the average of the preceding five years. The lake did not overflow during the year, the highest level attained being 455·60 feet above T. H. D. or 0·90 feet below the waste weir and 57·85 feet above the lowest outlet. The total quantity of water received in the City was 1,251 million gallons or an average of 3·4 million gallons per day.

64. The work of renewing, enlarging and laying distributing mains in connection with the Tansa duplication scheme and making additions to the water mains was continued during the year, 10,380 feet of new pipes having been laid.

Reservoirs and Filters.

65. The old outlet well at the Malabar Hill Reservoir has been remodelled and converted into a Central Control House to accommodate all the inlet and outlet valves from both reservoirs. All the old mains to and from the reservoirs have been directly connected to this Control House together with the additional inlet and outlet mains in connection with the Tansa scheme. This has rendered it possible to control from one place the supply to nearly half the City. The storage capacity of the reservoir has been increased by connecting the old inlet well to No. 2 Reservoir. All the filter beds have been rendered mosquito proof and similar action for protecting the reservoirs is in progress. The operations of the G. I. P. Railway Company in connection with the overhead Railway through Wari Bunder rendered necessary a slight alteration to the Bhandarwada Reservoir. The work was carried out during the year. The reservoir showed signs of leakage during the year which on investigation was traced to one of the cushion chambers under the outlet from the filters. The necessary repairs were carried out and the reservoir was rendered watertight. The work of improving the filter outlets is nearing completion.

66. There were 68 bursts during the year against 64 in the previous year, 49 in 1913-14 and 57 during 1912-13. Fifty-seven of these bursts were on the small 3, 4, 5 and 6 inch mains, 3 each on the 7 and 32 inch mains, one each on the 8, 9, 12, 18 and 48 inch mains. The number of new connections made was 514, while 253 connections were cut off for various reasons (of which however 103 were restored), the total number of connections standing at the close of the year was 25,270. The number of cases in which the sanction of the Standing Committee was obtained for disconnections aggregated 374. Out of these, disconnections were enforced in 253 cases and in the rest of the cases the Municipal requirements were complied with.

Water Works Waste Prevention Branch.

67. 9,860 underground and 21,585 aboveground defects were detected and remedied. The total length of mains of all sizes sounded during the year was 127 miles and 550 feet.

Tansa Duplication Works.

68. The work of raising the Tansa Dam which was commenced in 1912 was completed during the year. The duplication of syphons 1 to 7 with 50 inch steel pipes was completed in 1914 and that of syphon No. 8 by the end of October 1915; and the ceremony of turning on the increased supply from

Tansa was performed by Their Excellencies Lord and Lady Willingdon on 8th December 1915, a constant supply being given to the whole Island from April 1916. All the distributing mains sanctioned in connection with the Tansa Works have been laid and brought into use. The land required for the construction of a terminal reservoir at Ghatkoper has been acquired under the Land Acquisition Act. The work of actual construction of the reservoir has been deferred for financial considerations. The projects for the construction of service reservoirs at Golangi Hill and Sion Hill are under consideration.

General Stores Department.

69. The following figures show the value of stores purchased and issued during the year, including transfers and the balance in hand at the commencement of the year :—

Particulars.	General Stores.	Surplus and Obsolete Stores.	Line Suspense Account.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Value of stores in hand on 1st April 1915... ...	2,73,185 15 2	4,847 7 9	1,03,512 8 8
Value of stores purchased or added, including transfers during 1915-16	7,57,991 0 10	125 8 6	1,170 3 2
Total value Rs. ...	10,31,177 0 0	4,973 0 3	1,04,682 11 10
Less—			
Value of stores issued, including transfers ...	7,88,684 3 10	1,027 2 7	18,162 13 4
Balance Rs. ...	2,42,492 12 2	3,945 13 8	86,519 14 6
Add—			
Discrepancies adjusted as per clause 29 of the Stores and Stores Audit Manual against rate adjustment account	24 6 8	.....	.....
Balance in hand on the 31st March 1916 ...	2,42,517 2 10	3,945 13 8	86,519 14 6

70. During the year 102 contracts for the supply of general and special stores were entered into by the Stores Department. Owing to the war considerable difficulty was experienced in obtaining supplies required for stock, which was therefore in many cases low. Owing to the very high rates tendered for the supply of iron and steel, the usual annual contract was not entered into, but the supplies required were from time to time obtained by inviting quotations. Owing to irregular shipping and Government demands, the supply of stoneware pipes and canvas hose had to be obtained from the market at very high rates.

71. The verification of the stores in charge of the Stores Department which was begun in December 1914 was completed on 17th June 1915. The result was a net excess of Rs. 212-3-10 which considering the total receipts and issues during 1914-1915, amounting to Rs. 18,21,000, is most creditable. The verification of stores on the lines in charge of the Water Works Department was completed during the year and the result showed an excess of Rs. 250.

72. As a further revision of the vocabulary of stores has been found necessary its printing has been delayed ; but the work is being expedited.

73. The surplus and obsolete stores on hand at the end of the year showed a decrease of Rs. 901-10-1 over the last year's balance. This was due to a further utilization of articles by the Drainage and Water Works Departments. There was also a very satisfactory decrease of Rs. 16,992-10-2 in the

value of stores on lines in charge of the different Inspectors of the Water Works Department. This was due to many articles lying on the lines having been used in connection with the duplication of the Tansa Main.

74. The question of the collection of the General Stores on a new central site to which the Pipe Depot would be removed is still under consideration.

75. Owing to the conditions brought about by the war, the Stores Department had considerable difficulty in supplying the demands of the several departments, but the difficulties were overcome without any serious complaint.

Fire Brigade.

76. The Fire Brigade was maintained in a state of thorough efficiency throughout the year.

77. There were 237 calls to fires, of which 39 were false alarms and in several cases more than one call was received for the same fire. The total number of fires was 176. The estimated damage during the year was Rs. 6,36,503 against Rs. 30,19,569 during 1914-15.

78. There were only two serious fires during the year in one of which—namely that which occurred in the petrol barge at Sewree Bunder—although the value of the property lost was not considerable there was a loss of 5 lives and serious injury to several persons. In the other a mineral oil tank at Sewree point was destroyed by fire, the loss of property amounting to Rs. 1,50,726. Of the total loss Rs. 3,94,422 was covered by insurance, while Rs. 2,42,081 was uninsured.

79. The loss of life by fires during the year was four, while ten persons received injuries to which they subsequently succumbed.

80. Consequent on the new station at Elphinstone Bridge having been equipped with motor appliances, the Mazagon Station was closed on 1st July and the men and appliances were distributed to other stations. A fire alarm has been provided at the Old Mazagaon Station. Owing to the situation created by the war no progress has been made in the provision of the New Fort Fire Brigade Station at Mint Road the land for which has been acquired from Government.

81. The fire alarm system worked satisfactorily during the year. There are now 62 alarms in working order and the work of erecting 11 more is in hand.

82. The Brigade attended on four occasions at fallen buildings; two persons received injuries by the fall of buildings.

83. The water supply at the fires was satisfactory.

Public Gardens.

84. As the Malabar Hill Garden was transferred to the Water Works Department on 1st April 1915, the number of public gardens maintained by the Gardens Department during the year was ten against eleven in the past year. The work of laying out the Bhattia Baug Garden was in progress during the year.

85. *Victoria Gardens.*—The number of visitors to the Victoria Gardens, which diminished in the previous year in consequence of the exodus of people on account of the war, showed a satisfactory increase during the year under

report—the number being 15,44,708 against 13,40,034 in the previous year. The difficulty of obtaining good malis continued to be felt as usual. There has been an improvement in the water supply to the gardens since the duplication of the Tansa Main. A few additional paths and roads in the gardens were tarred during the year, and the work of planting trees and shrubs and the extension of lawns received considerable attention. Out of the sum of Rs. 2,800 offered by the Trustees of the estate of the late Mr. Ardeshir Dadabhoy Dadysett two ornamental drinking fountains were constructed and brought into use during the year. This gift for which the thanks of the Corporation are due to the Trustees, has supplied a long-felt want.

86. Owing partly to Bands not being available and partly to the reduction in the grant, the number of band performances at the Victoria Gardens, the Esplanade Bandstand and at Chowpatty had to be curtailed during the year. Their Excellencies Lord and Lady Willingdon were again pleased to offer their band to play once a fortnight from the 27th December 1915 to 20th March 1916 at the Municipal Bandstands, and this band gave four performances at the Victoria Gardens and three at the Esplanade Bandstand.

87. The Elephant and Camel rides at the Victoria Gardens continued to gain popularity. A few additions were made to the Zoological Collection. The Superintendent's report contains an account of an outbreak of Tuberculosis amongst the Llamas and Spotted Deer in the Gardens entailing a loss of 5 Llamas, 15 Spotted Deer and 1 Sambhar which had to be destroyed to prevent the spread of infection. The necessary sanitary precautions were immediately taken. The list of casualties from other diseases is also considerable. The thanks of the Corporation are again due to Major Liston for his investigations into illness and deaths among the animals and his advice in the adoption of measures for the prevention of the spread of diseases.

88. A proposal is on foot to convert the Northbrook and Falkland Road Gardens into recreation and play grounds for children.

Victoria and Albert Museum.

89. The Museum was open to the public during 314 days of the year. The total number of visitors was 745,216 against 673,796 during 1914-15 giving a daily average attendance of 2,373 against a daily average of 2,160 for the previous year.

90. The general equipment of the Museum is being gradually improved by the addition of new cases. During the year the Natural History Collection received a small addition of rare birds and animals stuffed at the Museum and the re-arrangement of the specimens of shells was taken in hand. A large number of interesting photographs was added to the collection in the Old Bombay Room and the prints and photographs now number 254. The overhauling of the whole collection of Industrial specimens was completed during the year and considerable progress was made in the cataloguing of them. A few Indian Musical instruments and a few specimens of pottery were also added to the Collection. A small addition of interesting books was made to the Museum Library by purchase.

VI.—Public Health.

91. The general health of the City was good and there was no epidemic of any disease except plague.

92. The year showed a very satisfactory decrease in the mortality from almost every principal cause of death and the total mortality for the year exclusive of still-born births was 23,681 against 31,853 for the previous year. This gives a death rate of 24·17 per thousand of the population being the

lowest recorded since 1874. The number of deaths recorded from plague during 1915 was 599 being the lowest since 1896. Tuberculosis was responsible for 1,710 deaths. This is the lowest recorded mortality from the disease. Infant mortality during the year also showed a decrease of 978 over the previous year and the rate of mortality on the number of births was 329 as against 385 in 1914. The climatic conditions during the year were favourable and the usual sanitary measures adopted kept the epidemic diseases under control.

93. The number of births registered during the year was 20,052. This was larger than the previous year's figures by 373 and 108 more than the decennial average. Relief in the shape of necessaries and comforts such as milk, loaves, beds, blankets, etc., was dispensed to 452 poor women during confinement against 166 in 1914, and 249 confinement cases were admitted and treated in the Maternity Home at Bellasis Road during the year. The ten Municipal Nurses and Midwives also attended 1,425 confinements. The high proportion of confinements attended by unskilled women is thus receiving an appreciable check and steps are being taken to extend the means of affording skilled medical aid to poor women during confinement by establishing two more Maternity Homes in the poorer quarters of the City, one at Parel and the other at Colaba.

94. The work of vaccination was satisfactorily performed during the year both as regards infants and Hajis.

95. The 13 Municipal dispensaries continued to administer free Medical relief to the sick poor of the City.

96. Anti-Malarial operations were continued during the year, the number of wells, infected with malarial mosquitoes, filled in and covered over, being 124 and 425 respectively, and the spleen rate of the City showed a very satisfactory decrease being 2·74 against 6·75 in 1914 and 5·87 in 1913. The progress hitherto made in the conduct of these operations has been satisfactory. A considerable proportion of the infected wells and breeding places in the southern part of the Island have been protected and the retention of the Malaria Staff as a separate branch of the Health Department is no longer necessary. It is therefore proposed to carry on the operations in future as part of the ordinary duties of the Health Department.

97. The administration of the Infectious Diseases Hospitals under Dr. Choksey was as usual satisfactory. During the year the Corporation accorded sanction to the carrying out of certain improvements and extensions of the Arthur Road Hospital. The work however has been held over for want of funds due to the situation created by the war.

98. A report from the Municipal Analyst showing the analytical work done in the Municipal Laboratory is attached to the Health Officer's Report.

99. The Conservancy work of the City was carried out in an efficient manner. While mechanical means of transport are being gradually introduced for the removal of the City refuse, manual labour for the removal of night-soil is being by degrees replaced by the water carriage system. From the Health Officer's Report it will be observed that the quantity of night-soil removed by manual labour during the year consequently shows a decrease.

Licenses.

100. The total amount collected on account of license fees aggregated Rs. 1,13,521 against Rs. 1,09,706 during the preceding year.

101. The amendment of Section 461 having recently been passed by Government giving power to the Corporation to frame Bye-laws for prescribing and regulating the construction, dimensions, ventilation, lighting, cleaning, etc., of premises used for any of the purposes mentioned in Section 394, steps will now be taken to legalize the Bye-laws already drafted for the licensing of horse and bullock stables. The enforcement of the revised Bye-laws in respect of milch cattle stables has brought about considerable improvement in these stables and the over-crowding which previously existed is gradually decreasing.

102. The work of licensing the milk trade was transferred to the Health Department from 1st October 1915. All noisy trades such as those of Tinsmiths, Coppersmiths, Aluminium Factories, Iron Safe Factories, Glass Bevelling and Glass Polishing, Stone Grinding and Cutting, etc., were brought under control for the first time during the year. By Municipal control of these trades it is not intended to interfere with the trades but merely to restrict their hours.

103. The total number of prosecutions during the year was 4,632 against 4,899 in the preceding year. Out of these there were convictions in 1,572 cases, in 1,317 of which fines were inflicted and in 255 cases the parties were warned and discharged. The rest of the cases were withdrawn. The fines inflicted during the year amounted to Rs. 18,454 against Rs. 16,793 in the preceding year.

MARKETS.

104. The total revenue from Markets and Slaughter Houses amounted to Rs. 5,88,813-8-6 against 6,01,014-14-3 in the previous year, showing a decrease of Rs. 12,201-5-9. This was chiefly due to a large falling off, amounting to Rs. 11,302-8-8, in the receipts from the sale of rights, as traders and bidders were reluctant to advance their bids owing to the war. The stall rents and squatters' fees collected departmentally showed increases of Rs. 384-13-7 and Rs. 1,044-9-0 respectively. The number of stalls vacant is still large in the Colaba, Fort and Erskine Road Markets owing to want of real demand in the former two markets and severe competition in the neighbourhood of the latter, which however continues to yield a handsome return. The increase in the squatters' fees collected departmentally was due to the continued efforts of the Market Department to remove into markets squatters from their vicinity. The receipts from slaughter fees, butchers' license fees, etc., showed a decrease of Rs. 1,339-12-0. This was due partly to the proceeds from the sale of blood being less than in the previous year and partly to a decrease in the receipts from license fees owing to one of the licensees for the collection of guts not having renewed his license. The slaughter fees, however, showed an increase of Rs. 1,440-4-0. The number of bullocks, cows and calves slaughtered was 53,229 against 57,054 in the previous year. The number of sheep and goats killed was 645,275 against 616,127 in the previous year. The number of buffaloes slaughtered was 8,371 against 8,574 in the previous year. The number of horned cattle slaughtered during the year showed a decrease of 4,028 as the Commissariat requirements for the expeditionary forces were met by supplying live cattle for slaughter at sea whereas during the preceding year arrangements had been made to supply meat.

105. The percentage of horned cattle rejected on account of unfitness at Bandora was 1·07 per cent. against 1·95 in the previous year, while that of sheep was about 2·99 per cent. against 2·32 per cent. in the previous year. Fifty-four buffaloes were rejected. The inspection was satisfactory.

106. The fines inflicted by the Presidency Magistrates amounted to Rs. 1,258-6-0 against Rs. 1,320 in the previous year and were mostly on account of meat improperly brought into Bombay. The quantity of such meat seized and

destroyed was 3,596 lbs. against 3,148 lbs. in the previous year and 3,007½ in 1913-14. The total quantity of unwholesome food destroyed as unfit for human consumption was 271,370½ lbs. against 2,31,820½ lbs. in the previous year.

107. The supplies of mutton, beef, fish, fruit, vegetables, etc., were plentiful and up to the usual standard.

108. The financial results of the working of the markets during the year showed a return of 8·74 per cent. on the estimated capital expenditure.

109. The construction of five shops on the western frontage of the Arthur Crawford Market and 66 stalls behind them has again been deferred owing to the financial situation created by the war. The reconstruction of the Bandora Slaughter Houses on modern sanitary principles is still under the consideration of the Executive Engineer and the lay out of a new meat market has been deferred pending the completion of the exchange of land at Bori Bunder with the G. I. P. Railway. There is, however, no likelihood of these works being taken in hand until the financial situation improves.

VII.—Education.

110. The number of Municipal Schools and of the pupils attending them during the year was 183 schools with 21,669 pupils against 179 schools with 18,046 pupils in the previous year.

111. Eight new schools were opened but the net increase over the previous year was four, as the number of old schools closed or amalgamated during the year amounted to four. Of the eight new schools opened three were for Marathi Girls, one each for Gujarathi and Urdu Girls, one each for Marathi and Gujarathi Boys and one was a Gujarathi Nirashrit Boys' school. The schools closed were one for Marathi Boys, two for Gujarathi Boys and one for Gujarathi Girls. The number of free schools for the depressed classes was fifteen during the year.

112. The expenditure rose from Rs. 4,77,963 to Rs. 5,02,173. The rise was due to the opening of new schools, the provision of better quarters for schools, the increase in the number of teachers and the re-organisation of the Superintendents' department. The cost per pupil was Rs. 20·5 as against Rs. 23·2 in the previous year. The decrease in the cost was mainly the result of the increase in the number of pupils.

113. Efforts to increase the number of trained male and female teachers were continued during the year and to ensure better supervision the Superintendents' department was re-organised. To cope with the increase in the number of pupils the number of ordinary teachers was increased from 702 to 803 during the year. Twelve additional trained teachers were employed during the year and 59 persons (male and female) were maintained as the Schools Committee's stipendiaries at the Poona and Ahmedabad Training Colleges. One Gujarathi and one Urdu Male Teachers' Training Class and one Urdu Lady Teachers' Training Class were opened in the city to enable Municipal school teachers to pass the entrance test as well as the certificate examinations of the Government Training College. The Khetwadi Anglo-Vernacular School Building, being the fourth of the buildings constructed out of the joint contribution, by Government and the Corporation, was completed and occupied during the year and new premises were secured for 20 schools and additional accommodation was rented for 26 more schools. The further construction of new school buildings out of the Government and Corporation's joint contribution has been suspended owing to the financial situation created by the war.

114. The number of schools to which aid was given was 132 with 15,536 pupils. The total grant paid to aided schools was Rs. 58,781 against Rs. 58,642 in the previous year.

115. The systematic medical examination of all the school children begun in 1914-1915 was completed during the year 1915-16 and the result is under the consideration of the Corporation. Intimation of the results has also been sent to the parents or guardians of the children.

Municipal Servants' Act.

116. No circumstances arose in any department of the Municipality in which it was necessary to put into operation the provisions of the Municipal Servants' Act.

S. M. EDWARDES,
Municipal Commissioner
for the City of Bombay.

CHIEF ACCOUNTANT'S REPORT.

FOR 1915-16.

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FINANCIAL.

REPORT of Mr. W. E. Waite, Chief Accountant, for the financial year 1915-1916 as forwarded with his No. 3466 of 17th July 1916.

I have the honour to offer the following remarks on the financial transactions of this Municipality for the year 1915-1916 :—

GENERAL RESULTS.

2. The taxes levied during the year were the same as for the year 1914-15 but the income was Rs. 1,38,31,070 against Rs. 1,24,13,367 in the preceding year showing an increase of Rs. 14,17,703. The expenditure of the year aggregated Rs. 1,28,03,870 showing an advance on the previous year of Rs. 3,15,223. The net result of the year's working is a surplus of Rs. 10,27,200, against a deficit of Rs. 75,279 during the year 1914-15.

3. The actuals of Income and Expenditure compare as follows with the original Budgetted figures:—

	Budget Estimates.	Actuals.	Difference.
Income	Rs. 1,22,37,000	1,38,31,070	+ 15,94,070
Expenditure ...	„ 1,28,89,948	1,28,03,870	— 86,078

As compared with the Revised Estimates the results are as follows :—

	Revised Estimates.	Actuals.	Difference.
Income	Rs. 1,34,35,000	1,38,31,070	+ 3,96,070
Expenditure ...	„ 1,33,29,012	1,28,03,870	— 5,25,142

Opening and closing working balances.

4. Including recoverable advances made to the extent of Rs. 8,93,264 for administrative purposes, and Rs. 10,65,310 reserved for the renewal of lapsed grants for 1914-1915 and previous years, the year opened with a working cash balance of Rs. 57,32,139. It closed with a balance of Rs. 67,59,338 of which Rs. 9,98,761 represents the renewal of lapsed grants for 1915-1916 and previous years, Rs. 1,00,000, the minimum cash balance required by law and Rs. 11,01,288 the amount of contribution payable to the City Improvement Trust on the 1st May 1916.

Reserve Stores Stock.

5. The sum standing at the debit of "Reserve Stores Stock" at the 31st March 1916 (including Surplus and Obsolete Stores of the value of Rs. 4,581) aggregated Rs. 3,54,171 as compared with Rs. 3,91,994 (including Surplus and Obsolete Stores of the value of Rs. 4,847) at the beginning of the year. There was thus a further decrease of Rs. 37,823.

Additional and Lapsed Grants.

6. The sums made available for expenditure during the year, in addition to the original Budget Grants, aggregated Rs. 13,14,917 of which Rs. 2,49,607 represents additional grants and Rs. 10,65,310 renewed grants. The grants requiring renewal in 1916-1917 aggregate Rs. 9,98,761 as compared with Rs. 10,65,310 renewed in 1915-1916.

Surplus Cash Balance.

7. Including all recoverable advances, but excluding (1) lapsed grants to be renewed in 1916-1917, (2) Rs. 1,00,000 required to be reserved under the Act, and (3) Rs. 11,01,288 collected this year for payment to the City Improvement Trust in 1916-17, the Surplus Cash Balance at the close of the year aggregated Rs. 42,05,118 against Rs. 31,57,415 at the beginning of the year, showing an increase of Rs. 10,47,703.

8. From this surplus, Rs. 2,98,135 have been utilized for opening a special "Lands and Buildings Fund" as required by Corporation Resolution No. 42 of 3rd April 1916 and also a further sum of about half a lakh has been set aside for extra grants to meet revenue expenditure incurred in 1916-17. There have also been further hypothecations to the extent of Rs. 7,26,455 to meet the cost of New Works chargeable to Loan Funds.

Incidence of Taxation.

9. The incidence of taxation per head calculated on the basis of the Census for 1911 during each of the five years ending with 31st March 1916 works out as follows:—

Year.	Rs.	a.	p.
1911-1912	10	13	2
1912-1913	11	8	5
1913-1914	11	10	5
1914-1915	10	14	8
1915-1916	12	9	8

Income Outstandings.

10. The outstandings of rates and taxes at the close of the year 1915-1916 stood at Rs. 42,454 against Rs. 56,658 in the previous year showing a decrease of Rs. 14,204 as follows:—

Outstandings at	General Tax.	Water Tax.	Halalkhore Tax.	Wheel Tax.	Meter Tax.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
31st March 1915	29,478	15,902	9,217	1,932	129	56,658
Do. 1916	23,412	10,137	6,588	2,272	45	42,454
	—6,066 Decrease	—5,765 Decrease	—2,629 Decrease	+340 Increase	—84 Decrease	—14,204 Decrease

Comparison with (a) Income 1914-1915.

11. As compared with 1914-1915 the receipts for the year show an increase of Rs. 14,17,704.

The variations were principally under the following heads:—

Increases—

General Tax	Rs.	3,96,301
Halalkhore Tax	,,	50,939
Water Tax	,,	1,07,008
Town Duties	,,	10,86,787
Tobacco Duties	,,	12,608

Decreases—

Market Receipts	,,	13,540
Miscellaneous Receipts	,,	1,81,325
Miscellaneous Fees	,,	15,539
Actual Profit on Sale of Stores to Contractors ...	,,	14,022
Interest and Profit on Investment of Surplus Loan and other Balances	,,	22,010

Comparison with (b) Expenditure 1914-1915.

12. As compared with the preceding year, the expenditure for the year shows an increase of Rs. 3,15,223. The variations are as under:—

	Rs.
Assessment and Collection Department	+ 24,740
Fire Brigade	+ 6,878
Public Works...	— 11,365
New Works	+ 22,118
Public Health Department	+ 73,425
Primary Education	+ 44,136
Miscellaneous	— 56,876
Contribution to the City Improvement Trust ..	+ 40,482
Contribution towards the cost of Cadastral Survey of the Town and Island of Bombay	+ 25,000
Debt	+ 1,72,570
Write-off of the cost of Halalkhores' chawl at Vincent Road sold to the City Improvement Trust	— 35,455

Debt.

13. The Capital debt of the Corporation at 31st March 1915 stood at Rs. 6,88,44,971. During the year a Rs. 43 Lakhs Loan for Drainage, Water, Roads and Miscellaneous Works was raised as also Rs. 14 Lakhs being the 2nd Instalment of the 20 Lakhs Loan for Street Improvements and Rs. 1,500 being the

balance of the 2nd Instalment of the 70 Lakhs Loan for Tansa Re-duplication Scheme. Of this Rs. 40 Lakhs were borrowed from the Bank of Bombay by a special arrangement and Rs. 17 Lakhs were reserved for our Sinking Funds.

The amount paid towards the reduction of debt was Rs. 1,45,696 and the balance payable at 31st March 1916 was Rs. 7,44,00,775.

Sinking Fund.

14. Against this debt, the Sinking Fund invested up to the close of March 1915 amounted to Rs. 1,50,80,816. To this, were added during the year Rs. 8,24,057 on account of annual Sinking Fund Instalments and Rs. 6,00,007 on account of interest on the invested funds bringing the total Sinking Fund Investments at 31st March 1916 to Rs. 1,65,04,880.

Borrowing Powers.

15. Allowing for the Sinking Fund of Rs. 1,65,04,880 against the outstanding debt of Rs. 7,44,00,775 the net debt liability is reduced to Rs. 5,78,95,895. The subjoined statement shows that the wealth liable to taxation has grown faster than the indebtedness of the Corporation and that judged by the limit of double the rateable value allowed under Section 109 (*b*) of the Municipal Act, the reserve of borrowing powers left to the Corporation is still considerable.

Year.	Rateable value of properties.	Municipal debt.	The ratio of the rateable value of properties in the City as it stood on the 31st March of each year to the aggregate amount of debt as at the same time.
	Rs.	Rs.	
1902-03	2,87,13,672	4,71,55,760	1:1·642
1903-04	3,10,16,244	4,74,20,356	1:1·529
1904-05	3,18,86,460	4,86,12,762	1:1·524
1905-06	3,43,83,811	4,97,15,015	1:1·445
1906-07	3,73,16,953	4,96,06,066	1:1·329
1907-08	3,98,64,747	5,07,82,403	1:1·273
1908-09	4,22,01,034	5,20,22,939	1:1·232
1909-10	4,45,13,209	5,49,08,205	1:1·233
1910-11	4,68,59,058	5,62,88,147	1:1·201
1911-12	4,82,55,536	5,91,60,747	1:1·225
1912-13	4,96,64,843	5,90,41,916	1:1·189
1913-14	5,21,62,819	6,48,83,677	1:1·244
1914-15	5,38,67,232	6,88,44,972	1:1·278
1915-16	5,70,83,834	7,44,00,775	1:1·303

Loan Works.

16. The original Budget Estimates amounted to Rs. 47,20,425. In the Revised Estimate this was reduced to Rs. 37,80,718. The total expenditure incurred during the year amounted to Rs. 28,56,540. Against a Budget Estimate of Rs. 82,23,205 and a Revised Estimate of Rs. 81,17,642 the actuals amounted during the previous year to Rs. 73,42,282.

Plague Expenditure.

17. The expenditure on Plague operations amounted to Rs. 1,22,912 during the year against a provision of Rs. 1,40,000 and an actual expenditure during 1914-15 of Rs. 1,27,633. The total expenditure of this Municipality for Plague purposes from the commencement of Plague operations in 1896-1897 to the close of the year aggregated Rs. 80,97,440.

INCOME.

Comparison between Budget Estimates and Actuals.

18. A detailed comparison between the Budget Estimates and the Actuals will be found in Appendix No. 2.

The income exceeded the original estimates by Rs. 15,94,070. The factors contributing to this advance in income have been the unusually large increases from (*a*) "Town Duties" Rs. 5,19,097 due to very heavy imports of grain and sugar. This, however, cannot be considered to be a real increase as the liabilities on account of refunds on exports will have to be set off against the income of the year to follow, (*b*) from "General Tax" Rs. 4,27,751 being due to arrears of General Tax received from the Bombay Port Trust amounting to Rs. 1,40,000 and Rs. 36,150 from Government owing to quinquennial (1914-1919) revaluation of their properties and to the general enhancement in the rateable value of properties in the City and (*c*) from "Water Tax" Rs. 2,68,021 being due to

increased consumption of water through meters by Railways, Port Trust, Government and factories and to an underestimate of water tax on valuation. There are also minor increases in "Wheel Tax and Tolls" Rs. 18,773 due to an underestimate, "Licenses" Rs. 15,720 also due to an underestimate though licenses for noisy trades which were issued for the first time brought in a revenue of over Rs. 2,500, "Tobacco Duty" Rs. 24,644 for which no explanation can be given as the receipts are collected through Government, "Halalkhore Tax" Rs. 68,587 due to an increase in rateable value and erection of new buildings, and "Miscellaneous Receipts" Rs. 1,03,066 to which recoveries from the Military authorities for Special Halalkhore Service rendered to troops passing through Bombay contributed Rs. 13,034, the compensation received from the City Improvement Trust for the sale of ground occupied by the old night-soil depot at Chandanwadi was responsible for Rs 15,576 and ground rent and rent of buildings, acquired as set-back and in overbridge schemes but which have not yet been demolished, yielded Rs. 75,000.

19. The increase of Rs. 11,777 under "Profit on Municipal Workshops" is due to a larger number of jobs having been executed during the year than anticipated and to the discontinuance from 1st November 1914 of the rent payable to Government for land at Palton Road occupied by the Old Workshops. The increase of Rs. 1,31,144 under "Interest and Profit on Investment of Surplus and Loan Balances was due to our funds having remained unutilized owing to postponement of certain works for want of materials as also owing to the necessity of curtailing the Loan Works programme under the orders of Government.

Comparison between Revised Estimates and Actuals.

20. In the Revised Estimates the total increase was advanced from the original estimate of Rs. 1,22,37,000 to Rs. 1,34,35,000 but the actuals exceeded even these estimates by Rs. 3,96,070. Having regard to the abnormal conditions prevailing at the time of preparing the revised estimates, an increase of nearly Rs. 12 Lakhs over the original estimates was considered to be quite adequate, any further increase than this being considered hardly warranted by the circumstances then existing.

The reasons for the variations on revised estimates are almost the same as those given for increases over the original estimates.

III.—COMPARISON BETWEEN THE ACTUALS FOR 1914-1915 and 1915-1916.

21. As already stated, though the taxes were levied at the same rate as in the preceding year the income for the year exceeded that of the previous year by Rs. 14,17,703. Variations were very marked, the increases under the different heads amounting to Rs. 16,74,922, the decreases to Rs. 2,57,219.

22. Dealing first with the increase of Rs. 3,96,301 in General Tax, it will be seen that this is represented partly by payment of arrears by Government and Port Trust in consequence of the revised quinquennial award and partly by the enhancement of rateable value of existing properties and construction of new buildings.

23. In my report for last year (page 30) I alluded to the large falling off in the imports of sugar due to heavy purchases by Government. But the restoration of normal conditions of trade in the year under review and the large purchases for war purposes brought about a re-action in proportionately heavier imports of sugar and grain and the result was an exceptionally large increase, *viz.*, Rs. 10,86,787 under "Town Duties."

24. The reasons for increases under "Tobacco Duty" (Rs. 12,608), "Halalkhore Tax" (Rs. 50,939) and "Water Tax" (Rs. 1,07,009) have been explained in para. 18. The increases under other heads being small call for no remarks.

25. The decreases are under "Market Receipts" (Rs. 13,540), "Miscellaneous Receipts" (Rs. 1,81,325), "Miscellaneous Fees" (Rs. 15,539), "Actual profit on sale of stores to contractors" (Rs. 14,022) "Interest and Profit on Investments" (Rs. 22,010). The falling off under "Market Receipts" is due to less amount realized this year by the sale of rights for collecting squatters' fees and fair ground and feeding fees, as also from fees for verifying weights and measures. The decrease under "Miscellaneous Receipts" is attributable to special receipts realized last year from sales of land at Haines Road to the City Improvement Trust and at Mahaluxmi to the B. B. & C. I. Ry. Co. The "Miscellaneous Fees" fell short of the preceding year owing to the right of skinning dead animals having been sold at a lower price. The deficit in "Actual profit on sales of stores to contractors" was due to large works such as the Tansa Re-duplication having been completed during the year. The income under "Interest" was reduced owing to lower balances of public securities in Surplus Funds Investments Deposit Account.

26. Excluding the income from Town Duties as being of an unstable character, the principal source which contributed to the expansion of our revenue was the property taxes, and I think I may safely put the permanent annual addition to the resources of the Municipality at Rs. 2,24,000 as brought out in the subjoined statement :—

B. *Assessment and Collection Department.*—Increase of Rs. 38,555 due (1) to large amount of commission paid to the Port Trust and the Railways owing to increase in the Town Duty Collections, (2) to the employment of the experimental staff at its full strength in the Revenue and Refund Audit Office and (3) to expenditure incurred on marking ink in consequence of the system of marking sugar bags having been brought into operation.

C. *Fire Brigade.*—The increase of Rs. 6,856 was due (1) to revision of salaries of the staff, (2) to more expenditure incurred on new works and (3) to rent paid for additional fire alarms put up in the City.

D. *Public Works Engineer's Department.*—The increase of Rs. 14,275 under D. Maintenance of Air Compressor Station at Love Grove, was due (1) to the purchase of a new boiler, (2) to the employment of extra labour on the renewal of sealed Sewage main at Fergusson Road and (3) to more charges having had to be incurred on the purchase of fuel and repairs to buildings. The increase of Rs. 35,099 under "Drainage" was due (1) to revision of rates of wages of labourers, (2) to employment of the staff at its full strength, (3) to special provision for the making of new drain carts and (4) to more expenditure on repairs to trenches and on the work of replacing Sealed Sewage Main at Warden Road.

The decrease of Rs. 65,186, under "Water Works" is accounted for as under:—

	Increase.	Decrease.	Reasons.
	Rs.	Rs.	
I Establishment	10,503	.....	Higher rates of pay allowed to labourers, malis, sluicemen, linemen, assistant linemen, &c., and to the employment of additional labourers.
II (*d*) Meters let on hire	.....	77,468	Meters were not available.
(*f*) Construction of masonry chambers over meters	12,275	.....	This had to be specially provided for to replace wooden boxes which required frequent repairs.
IV Repairs	.....	6,710	Expenditure had had to be incurred in 1914-15 on repairs to Bhandarwada Reservoir.
XI Cost of measures for dealing with wells and tanks	8,197	.....	Owing to expenditure on the work of covering the 4 wells in the Esplanade Maidan which was undertaken this year.
XIII Replacing small service mains in the City	.....	13,823	The work was hampered owing to pipes and materials not being available.

There was a net increase of Rs. 6,231 in the Streets and Buildings Branch. The variations are as under:—

	Increase.	Decrease.	
	Rs.	Rs.	
(*b*) Public lighting	.....	15,591	Retrenchment of expenditure on the putting up of new gas lamps owing to the grant for their maintenance being insufficient.
(*c*) Road watering	.....	46,740	No Akonia having been purchased during the year.
(1) Oiling and tarring roads ...	15,630	.....	Due to a large area having been brought under these operations.
(*d*) Maintenance of Roads and footpaths	45,948	.....	Due to (1) more expenditure having been incurred on Road Repairs, construction of footpaths and repairs to chawls. (2) The work of laying out a garden on the Eastern slope of the Malabar Hill having been undertaken this year against the accumulated grants for 1913-14 and 1914-15.
(*e*) Street Improvements	8,687	.....	More expenditure having had to be incurred on the metalling of portions of ground added to roads.

E. *New Works.*—The increase of Rs. 22,118 was due to larger number of works having been executed during the year.

F. *Public Health Department.*—There were increases aggregating Rs. 90,494 and decreases amounting to Rs. 17,069 under this head, the net increase being Rs. 73,425. The principal variations are explained below:—

Conservancy Branch.—There was a net increase of Rs. 77,953 made up of many items as under:—

		Increase. Rs.	Decrease. Rs.	
(3)	Labour—			
	(*a*) Scavengering Establishment	48,063	.....	Due to an all-round increase in the wages of the labour staff and to the employment of additional scavengering men and women in F and G Wards.
	Feed of bullocks	21,915	.....	Due to increased contract rate for fodder.
	(*b*) Working of steam tip wagons	.....	12,989	Maintenance charges not having been incurred owing to the non-arrival of motor wagons on account of war.
	(*c*) Gully Flushing	4,359	.....	Due to higher rates of wages allowed to the labour staff.
(7)	New stock	5,037	.....	Due to more bullocks having been purchased to replace casualties.
(12)	Halalkhore Branch—			
	(*a*) Superintendence ...	11,007	.....	Due to the provision of 22 additional Sub-Inspectors by reducing Halalkhore Mukadams and trip-markers.
	(*b*) Labour	.....	11,455	Due to the reduction of ordinary and special halalkhores owing to the introduction of privies on water carriage system and substitution of cesspools in certain parts of the City.
	(*c*) Feed of bullocks... ...	5,789	.....	Due to increased contract rates for fodder.
	(*e*) Repairs, &c.	4,986	.....	Due to the work of conversion of Bhoiwada latrines having been completed during the year.
	(*f*) Purchase of live-stock ...	3,518	.....	Due to 20 per cent. increase in the number of cesspool carts in G Ward.

Registration of Births and Deaths.—The increase of Rs. 7,678 under this head was principally due to the maintenance of a Maternity Home for the full year as against a period of 2 months in the preceding year.

Laboratory.—The decrease of Rs. 1,664 was due to expenditure on the purchase of books and apparatus required for the fitting up of the laboratory not having been incurred during the year.

Infectious Diseases.—The decrease of Rs. 3,075 was due to less expenditure incurred in connection with special measures.

Malaria.—There was a decrease of Rs. 4,759 owing to the reduction of the staff and to less contingent expenditure in consequence of the slackening of the campaign.

Plague.—There was a decrease of Rs. 4,722 due to less expenditure on medical relief and disinfection.

G. *Education.*—There was an increase of Rs. 44,136 owing to increased contribution to Primary Education and a decrease of Rs. 2,499 under "Schools Committee's Establishment" due partly to the new Secretary starting on the minimum pay of his post and partly to the cost of a typewriter purchased in the preceding year.

H. *Miscellaneous.*—There were increases aggregating Rs. 9,347, and decreases amounting to Rs. 66,223 thus showing a net decrease of Rs. 56,876. The increases are made up of small items which call for no remarks. The decreases were due (1) to a contribution of Rs. 15,000 to the Bombay Sanitary Association for the construction of a sanitary institute paid in 1914-15, (2) to a contribution of Rs. 30,000 to the Lady Hardinge Hospital, (3) to compensation of Rs. 3,400 paid to Government for a structure at Musjid Bunder Station, (4) to the write-off of irrecoverable charges (Rs. 9,034) in respect of House-drain cleaning works for 1911-12 and previous years as well as of the loss of Rs. 2,500 on the sale of unserviceable stores during 1914-15 and (5) to less payments on account of local allowance.

I. *Contribution to the City Improvement Trust.*—An increased contribution of Rs. 40,482 had to be made to the City Improvement Trust during the year owing to an increase in the General Tax realizations.

J. *Contribution towards the cost of Cadastral Survey of the Town and Island of Bombay.*—The sum of Rs. 25,000 was paid to Government as the first instalment.

K. *Municipal Debt.*—The increase of Rs. 1,72,570 is due (1) to interest charges on the 70 lakhs loan, the 2nd instalment of Rs. 14 lakhs of the 20 lakhs loan and the 43 lakhs loan (2) to the provision for the Sinking Fund Instalment in respect of 70 lakhs loan and (3) on account of payment towards the reduction of the Drainage Loan of 1878.

L. *Write-off of the cost of Halalkhores' chawl at Vincent Road sold to the City Improvement Trust.*—The decrease of Rs. 35,455 was due to the write-off effected during 1914-15 of the proportionate cost of the chawl originally paid out of loan funds.

43. On a comparison of the expenditure for the 2 years 1914-15 and 1915-16, I estimate that the net result of the year's transactions has been to add to our recurring liabilities practically to the extent of Rs. 4½ lakhs thus :—

			Increase.
			Rs.
(1)	General Superintendence		4,000
(2)	Assessment and Collection Department		13,000
(3)	Fire Brigade		14,000
(4)	Public Works Engineer's Department—		
	(*a*) Mechanical Branch	Rs. 9,000	
	(*b*) Drainage	„ 12,000	
	(*c*) Streets and Buildings... ...	„ 64,000	
	(*d*) Water Works	„ 16,000	
			1,01,000
(5)	Public Health Department		60,000
(6)	Education (contribution to Primary education) ...		44,000
(7)	Pensions		4,000
(8)	Contribution to the City Improvement Trust ...		40,000
(9)	Municipal Debt		1,70,000
		Increase Rs.	4,50,000

Having regard to the permanent increase in income estimated at Rs. 2,24,000 in para. 26 it will be seen that this year also as in the previous year the expenditure advanced at a quicker pace than the Income.

SURPLUS CASH BALANCE.

44. The unhypothecated surplus cash balance (excluding the minimum balance of Rs. 1,00,000 required by law, Rs. 11,01,288-9-0 reserved for payment to the City Improvement Trust on account of contribution from Revenue and Rs. 3,54,171-5-6 being the amount of stores in hand) stood at Rs. 42,05,117-10-3 against Rs. 31,57,414-11-6 at the close of 1914-15, showing an increase of Rs. 10,47,702-14-9 made up thus:—

	Rs.	a.	p.
Surplus for the year	10,27,200	5	4
Decrease in balance of reserve stock stores ...	37,822	15	6
Decrease in lapsed grants	66,548	1	3
	Rs. 11,31,571	6	1
Less—Increase in contribution reserved for payment to the City Improvement Trust	83,868	7	4
	Rs. 10,47,702	14	9

45. The original estimate of Surplus Cash Balance at the close of the year excluding the minimum balance of Rs. 1 lakh required by law and Rs. 9,95,000 reserved from revenue for payment to the City Improvement Trust was Rs. 21,22,718. The actual Surplus Cash Balance of Rs. 42,05,117-10-3 was thus in advance by Rs. 20,82,399-10-3. It also exceeded the figures of the Revised Estimate of Rs. 32,63,402-4-2 [Rs. 43,80,822-5-10—(Rs. 10,17,420-1-8+1,00,000)] by Rs. 9,41,715-6-1, thus :—

		Rs. a. p.		
1.	Extra income realizations (para. 20) ...	3,96,070 2 10		
2.	Savings in expenditure (para. 34) ...	3,16,633 7 9		
3.	Difference in favour of 1915-16 as compared with 1914-15 in the renewed grants actually required in 1914-15 and that provided in the revised estimate for 1915-16 (Rs. 10,65,309-10-2—Rs. 8,48,300-0-0)	2,17,009 10 2		
4.	Decrease in value of Reserve stock ...	37,822 15 6		
5.	Decrease on amount reserved for additional grants	58,047 12 0		
				Rs. 10,25,584-0-3
	Less—Increase in contribution reserved for payment to the City Improvement Trust ...	83,868 7 4		
	Excess amount for rounding off the opening balance of Revised estimates	0 2 10		
			„	83,868-10-2
			Difference Rs.	9,41,715-6-1

LOANS RAISED.

Appendices Nos. 6-A, 6-B and 6-C.

46. The amount of loans raised up to 31st March 1916 as shown in these Appendices aggregates Rs. 7,15,00,500. The total amount expended on Loan Works and Plague stood at Rs. 6,80,06,271-0-11 and the invested balance at Rs. 34,94,228-15-1. Of the sum of Rs. 6,80,06,271-0-11, Rs. 6,67,29,935-2-10 represents expenditure on works for which loans have already been sanctioned and raised, and Rs. 12,76,335-14-1 is the total amount of Capital expenditure incurred by way of advances from Surplus Loan Balances. The amounts so advanced from the balances in hand of each individual loan are shown in column 7 of Appendix No. 6-B. In addition to this Rs. 2,29,115-1-0 have been actually spent by way of advance from Surplus Cash Balance on works in progress for which loans have yet to be raised. The particulars of these works are given in Appendix 6-C.

47. The loans raised during the year were the second instalment of Rs. 14 lakhs of the 20 Lakhs Loan for Street Improvements repayable in 40 years ending 1st May 1955, Rs. 43 Lakhs Loan for Drainage, Water, Roads, and Miscellaneous Works repayable in 30 years ending 1st May 1945 and the balance of Rs. 1,500 of the second instalment of the 70 Lakhs Loan for Reduplication of Tansa Main. Out of Rs. 43 Lakhs Loan, Rs. 17 lakhs were reserved for Sinking Fund and the balance of Rs. 26 lakhs as also the 14 lakhs of the Street Improvement Loan were borrowed on 24th September 1915 by a private arrangement with the Bank of Bombay by issuing to the Bank 4 per cent. Municipal Debentures, the Bank to receive nett interest at 4¾ per cent. per annum, the interest adjustments being made every six months and the sum so borrowed being repayable by 11 instalments as under :—

1st	instalment	on	30th November 1916	Rs. 2,25,000
2nd	„	„	28th February 1917	„ 3,25,000
3rd	„	„	30th June 1917	„ 7,25,000
4th	„	„	30th September 1917	„ 3,75,000
5th	„	„	31st December 1917	„ 2,75,000
6th	„	„	31st March 1918	„ 2,75,000
7th	„	„	30th June 1918	„ 7,50,000
8th	„	„	30th September 1918	„ 3,75,000
9th	„	„	31st December 1918	„ 3,00,000
10th	„	„	31st March 1919	„ 2,75,000
11th	„	„	1st May 1919	„ 1,00,000
				Rs. 40,00,000

1914-1915.	Amount.	Total.	Grand Total.	1915-1916.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.		Rs. a. p.	Rs. a. p.	Rs. a. p.
1. General Tax (including Fire Tax) at 9¼ per cent.—				1. General Tax (including Fire Tax) at 9¼ per cent.—			
Total collections booked	50,41,449 6 11			Total collections booked	54,37,750 12 8		
Less—				*Less*—			
Arrear recoveries	57,358 7 3			Arrear recoveries	1,78,202 0 10		
	49,84,090 15 8				52,59,548 11 10		
Add—							
Revenue appertaining to 1914-15 received in 1915-16	1,76,150 10 2						
Add—				*Add*—			
Outstandings for the year at the close of the year	27,824 1 4	51,88,065 11 2		Outstandings for the year at the close of the year	19,477 14 2	52,79,026 10 0	
2. Water Tax and Miscellaneous Water Works Revenue at 3 per cent. on rateable value—				2. Water Tax and Miscellaneous Water Works Revenue at 3 per cent. on rateable value—			
Total collections booked	22,15,011 2 8			Total collections booked	23,23,021 1 3		
Less—				*Less*—			
Recoveries for previous years	8,403 7 3			Recoveries for previous years	5,445 0 11		
	22,06,607 11 5				23,17,576 0 4		
Add—				*Add*—			
Outstandings for the year at the close of the year	15,410 7 3	22,23,018 2 8		Outstandings for the year at the close of the year	9,827 3 4	23,27,403 3 8	
3. Halalkhore Tax at 3 per cent.—				3. Halalkhore Tax at 3 per cent.—			
Total collections booked	14,17,647 7 10			Total collections booked	14,68,586 13 7		
Add—				*Add*—			
Excess of refund over recoveries for previous years...	4,185 14 5			Excess of refund over recoveries for previous years	1,969 15 5		
	14,21,833 6 3				14,70,556 13 0		
Add—				*Add*—			
Outstandings for the year at the close of the year	8,733 2 0	14,30,566 8 3		Outstandings for the year at the close of the year	5,399 2 7	14,75,955 15 7	
			88,40,650 6 1				90,82,385 12 3

Net Income from Property Taxes for 1915-1916		Rs. 90,82,385 12 3
Deduct—		
(1) Net Income from Property Taxes for 1914-15	Rs. 88,40,650 6 1	
(2) Reduction in Outstanding Balances	„ 17,263 7 6	„ 88,57,913 13 7
Net Increase in 1915-16 over 1914-15		Rs. 2,24,471 14 8

OCTROI DUTIES.

27. As usual the various articles on which duty was levied at the time of import under the provisions of Section 192 (1) of the Municipal Act, the amount levied and the refunds allowed thereon under Section 192 (2) on their export, are shown in Appendix No. 3.

The gross collections for the year were estimated at Rs. 30 lakhs, the refunds at Rs. 15 lakhs and the net revenue at Rs. 15 lakhs against between Rs. 17¼ and 17½ lakhs realized during 1912-13 and 1913-14. The reason for the underestimate lay in the fact that there was a very serious fall in receipts from Town Duties in 1914-15 when the Budget for 1915-16 was being prepared and it would have been too bold to anticipate any improvement in income from this source in view of the dislocation of trade at the time owing to the war. The actual gross realizations were Rs. 36,60,101 and the refunds paid aggregated Rs. 16,23,607.

28. The net revenue collected and paid into the Municipal Treasury in the year amounted to Rs. 20,19,097 showing an increase of Rs. 10,86,787, as compared with the actuals of last year, *viz.*, Rs. 9,32,310. The net realizations, after deducting the cost of collection, amounted to Rs. 18,37,710 against Rs. 7,84,309 in the previous year.

29. I attach, as usual, Appendix No. 3 A. showing the net revenue derived from each dutiable article during the ten years ending with 1915-16. Appendix No. 3 B showing the actual collection, the refunds admitted, and the net revenue during the five years ending 1915-16, and also Appendix No. 3 C showing the gross collections for the year from each dutiable article month by month from each source with the total refunds admitted as compared with the figures of the preceding year.

The increase in Town Duties is, it will be seen, due to heavy consignments of sugar and grain coming to the port during the year.

REVENUE EXPENDITURE.

I.—Grants for expenditure from Current Revenue.

30. From Appendix No. 4, it will be seen that the grants originally sanctioned by the Corporation under Section 129 of the Municipal Act aggregated Rs. 1,28,89,948. To this were subsequently added, (1) Rs. 6,54,215 on account of lapsed grants for 1913-14 and previous years including transfers sanctioned in 1914-15 but not utilized in that year and Budget grants for 1914-15, not wholly or partially utilized in that year and sanctioned by the Corporation in 1915-16, (2) Rs. 4,11,095 on account of lapsed grants for 1914-15, (3) Rs. 2,49,607 on account of additional grants sanctioned for purposes for which no specific grants existed. The total sanctioned grants for the year (excluding Rs. 85,600 taken credit for as savings in the revised estimates) thus aggregated Rs. 1,41,19,265.

31. During the previous year the additional grants sanctioned amounted to Rs. 4,50,851. The growing tendency of applying for large additional grants during the currency of the year has been materially checked in the year under report with the result that the extra grants during the year aggregated only Rs. 2,49,607.

32. The principal items above Rs. 10,000 included in additional grants sanctioned for the year are as under :—

	Rs.
(1) Cost of constructing a covered storm-water drain in Girgaum Road and of providing a storm-water concrete covered side drain in Kandewadi Lane ...	22,989
(2) Cost of reintroducing the system of marking bags of sugar with Municipal marks	12,052
(3) Excess over budget provision in respect of contribution payable to the C. I. Trust for the year 1914-15	22,420
(4) Cost of laying a 9″ pipe sewer in Esplanade Road	14,430
(5) Cost of certain drainage works	16,142
(6) Charges incurred in excess of the Budget grants for 1914-15 by the different departments of the Municipality	14,013
(7) Cost of repairing the retaining wall and teakwood railing at the Hornby Vellard	10,944
(8) Excess in the grant for Water Department Section (2) (*a*) materials for general works and repairs in Bombay due to construction of masonry chambers over meters	17,500
(9) Excess in the grant for gas lighting	20,000
	Rs. 1,50,490

33. The transfers made from one budget head to another without in any way affecting the total budget provision for the year amounted to Rs. 2,11,590.

II.—Comparison between the Grants finally sanctioned and Actuals.

34. As stated in para. 30 the grants made finally available for expenditure during the year aggregated Rs. 1,41,19,265 (Appendix No. 5). The total expenditure booked amounted to only Rs. 1,28,03,870 leaving an unexpended balance of Rs. 13,15,395. Of this, Rs. 9,98,761 are required to be renewed for expenditure in 1916-17, leaving a saving of Rs. 3,16,634 or 2·41 per cent. on the total sanctioned grants minus renewals, against 1·13 per cent. in the preceding year.

35. The following figures show the percentage of savings to sanctioned grants for the last 5 years making no allowance for renewals:—

Year.	Final sanctioned grants after deducting savings taken credit for in the Revised Estimates.	Unappropriated net savings.	Percentage.
	Rs.	Rs.	
1911-1912 ...	1,27,73,556	3,92,699	3·07
1912-1913 ...	1,31,00,589	4,01,046	3·06
1913-1914 ...	1,33,19,020	2,61,862	1·96
1914-1915 ...	1,36,60,686	1,42,185	1·04
1915-1916 ...	1,41,19,265	3,16,634	2·24

36. These savings include about 1½ lakhs which would have had to be renewed but for the fact that the works for which the grants were allotted were postponed owing to the impossibility of obtaining goods from Home on account of war. After making allowance for these special savings, the percentage of unappropriated savings works out to 1·18 against 1·04 of the preceding year.

37. I subjoin figures showing the results in regard to total savings for each year from 1911-12 to 1915-16.

—	1911-12.	1912-13.	1913-14.	1914-15.	1915-16.
	Rs.	Rs.	Rs.	Rs.	Rs.
Savings as estimated in the Revised Estimates	2,56,498	1,19,000	2,38,150	4,33,500	85,600
Further savings accrued in final accounts	3,92,699	4,01,046	2,61,862	1,42,185	3,16,634
Total Rs. ...	6,49,197	5,20,046	5,00,012	5,75,685	4,02,234

38. Allowing for the fact that out of the amount of Rs. 4,02,234 Rs. 1,49,521 had perforce to be reappropriated to Surplus Cash Balance, the actual savings in the year's grants amounted to Rs. 2,52,713 only which is the result of cutting down allotments asked for in excess of requirements by the Executive Officers.

39. In so far as the gross grants obtained from the Corporation are concerned there is a distinct improvement this year as the following comparative statement shows:—

—	Gross grants sanctioned.	Savings on Revised Estimates.	Expenditure booked against gross grants.	Lapses on gross grants sanctioned.
	Rs.	Rs.	Rs.	Rs.
1911-12 ...	1,30,30,053	2,56,498	1,14,84,561	15,45,492
1912-13 ...	1,32,19,589	1,19,000	1,16,81,587	15,38,002
1913-14 ...	1,35,57,170	2,38,150	1,20,48,926	15,08,244
1914-15 ...	1,40,94,185	4,33,500	1,24,53,191	16,40,994
1915-16 ...	1,41,19,265	85,600	1,28,03,870	13,15,395

40. It will be seen that despite the increase of 8·36 per cent. in "gross grants sanctioned" over 1911-12 the percentage of lapses on "Gross grants sanctioned" shows a most satisfactory decrease, *viz.*, 14·9. This result was attained after a careful scrutiny of the allotments which had to be kept within the bounds warranted by requirements.

41. The following statement gives the percentage of lapsed grants to total grants sanctioned under the more important heads and departments:—

Percentage of renewals to total sanctioned grants.	Departments and Service heads.	Total Renewals.
		Rs.
6·3	General Superintendence	21,731
6·8	Fire Brigade	15,399
13·4	Public Gardens	15,696
8·3	Public Works	2,65,559
4·5	Public Health Department	1,21,720
45·7	New Works	2,17,166
6·5	Debt	2,75,187
30·5	Miscellaneous	52,425

III.—Comparison between the actual expenditure during 1914-15 *and* 1915-16.

42. The Revenue Expenditure of the year under report as compared with the preceding year shows increases aggregating Rs. 5,84,441 under certain heads and decreases aggregating Rs. 2,69,218 under others, thus leaving a net increase of Rs. 3,15,223.

A. *General Superintendence.*—The increase of Rs. 6,863 was due to (1) the salary of the Municipal Secretary having been raised from Rs. 1,000 to Rs. 1,200, (2) to the cost of the acting arrangements made during the Secretary's absence on privilege leave and (3) to less expenditure incurred in 1914-15 owing to the absence of the Municipal Commissioner Mr. Cadell on leave.

DEBT AND SINKING FUNDS.

Appendices Nos. 7, 7-A and 8.

48. The total Capital Debt of the Corporation at the beginning of the year amounted to Rs. 6,88,44,971-11-9 of which Rs. 22,17,971-11-9 represented the Vehar Debt due to Government, and the balance was due to the public. The amount raised during the year aggregated Rs. 57,01,500. The amount paid during the year towards the reduction of the Vehar Debt was Rs. 25,696-12-0 and Rs. 1,20,000 were paid to certain holders of the Debentures of the Drainage Loan of 1878. There was thus a nett increase of Rs. 55,55,803-4-0 in the Capital Debt of the Corporation which stood at Rs. 7,44,00,774-15-9 on 31st March 1916 against Rs. 6,88,44,971-11-9 on 31st March 1915. Of the total debt, Rs. 21,92,274-15-9 represented the amount due to Government. Against the total debt due, the Sinking Fund invested upto 31st March 1916 amounted to Rs. 1,65,04,880-8-0, leaving a net debt liability of Rs. 5,78,95,894-7-9.

49. From statement No. 7 it will be observed that 70 debentures of the aggregate value of Rs. 35,000 of the Drainage Loan of 1878 which were redeemable on 1st January 1906, 1st January 1909, 1st January 1910, 1st January 1912, 1st January 1915 and 1st January 1916 were not surrendered for repayment by the holders upto the close of the year.

50. Appendix No. 8 shows that the outstanding interest on the different Municipal Loans at the beginning of the year amounted to Rs. 1,78,602-3-5 which together with Rs. 29,61,039-3-1 on account of interest payable during the year under report, gave a total liability of Rs. 31,39,641-6-6. Against this, the net interest paid by the Bank of Bombay during the year under report amounted to Rs. 28,97,844-7-11 against Rs. 28,13,817-15-9 in the preceding year. The outstanding balance at the close of the year under report amounted to Rs. 2,41,796-14-6 against Rs. 1,78,602-3-5 for the preceding year. The outstanding represents 7·7 per cent. of the total interest payable against 5·9 in 1914-15.

51. From Appendix No. 7-A it will be seen that allowing for interest due but not collected, the invested balances of the Sinking Fund on 31st March 1916 amounted to Rs. 1,67,22,651-9-2 and was only Rs. 8,141-9-2 in excess of what should have accumulated for the purpose for which the funds have been created.

52. The subjoined statement shows the book and market value of the paper held in the Sinking Fund at the close of the year:—

Name of Sinking Fund.	5 per cent. Municipal Debentures.	4 per cent. Municipal Debentures.	4 per cent. Bombay Port Trust Debentures.	4 per cent. Bombay Improvement Trust Debentures.	4 per cent. sterling Bombay Improvement Trust Bonds.	3½ per cent. Government Paper.	3 per cent. Government Paper.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
5 per cent. Municipal Loans Sinking Fund ...	36,41,000	25,73,000	2,26,500	9,76,500	£25,000= Rs. 3,75,000	.....	.. ...
4 per cent. Municipal Loans Sinking Fund—3½ per cent. basis ...	.....	27,63,500	1,52,500	23,54,000	.....	18,76,800	.....
4 per cent. Municipal Loans Sinking Fund—3 per cent. basis ...	.....	3,48,000	1,99,000	1,08,000	.. ...	1,30,000	5,00,000
3½ per cent. Municipal Loans Sinking Fund	.....	53,000	.....	41,500	.....	2,21,800	.....
Face Value ...	36,41,000	57,36,500	5,52,000	34,75,000	3,75,000	22,27,600	5,00,000
Market Value ...	11,41,000 @ 106% = Rs. 12,09,460 25,00,000 @ 113% = Rs. 28,25,000	@ 95% = 54,49,675	@ 95% = 5,24,400	@ 95% = 33,01,250	@ 94% = 3,52,500	@ 81% = 18,04,356	@ 69% = 3,45,000
Difference between Face Value and Actual Value ...	+3,93,460	— 2,86,825	—27,600	— 1,73,750	— 22,500	— 4,23,244	—1,55,000

Total deficit Rs. 6,95,459

Against this we hold Government Paper in Net Premia Fund of the face value of Rs. 1,35,000 which at the market rate on 31st March 1916 amounts to ... ... „ 1,09,350

Net Deficit ... Rs. 5,86,109

The question of the depreciation of securities has got to be faced especially in view of the fact that the issue of 4 per cent. Government Paper and the conversion of 3 per cent. and 3½ per cent. Paper into 4 per cent. will affect the market value of other public securities. It is necessary therefore that we should open an Investment Reserve Account for adjustment between the face value and the market value to enable us to bring our securities in the Sinking and Net Premia Funds to the market level.

EXPENDITURE ON LOAN WORKS.

Appendix No. 9.

53. The total outlay on Loan Works during the year (excluding Plague expenditure which was met from Current Revenue) aggregated Rs. 28,56,540-0-9 against Rs. 73,42,281-15-5 in the preceding year, showing a decrease of Rs. 44,85,741-14-8. The expenditure was distributed as under and as compared with the Revised Estimates does not show large variations except under B. Roads and Overbridges and D. Water Works.

		Revised Estimates.			Expenditure.		
		Rs.	a.	p.	Rs.	a.	p.
A.	Buildings and Sanitary structures ...	5,65,547	7	2	5,06,513	12	10
B.	Roads and Overbridges	11,14,216	4	4	5,27,943	10	11
C.	Drainage	9,91,405	5	10	8,98,710	0	2
D.	Water Works	10,69,744	14	0	8,99,436	2	8
E.	Cemeteries	2,104	4	1	104	4	1
F.	Miscellaneous	37,700	6	7	23,802	2	1
	Total Rs. ...	37,80,718	10	0	28,56,540	0	9

The total excesses on individual works in the Revised Estimates amounted to Rs. 13,507-2-1 incurred on sundry Loan Works in progress and the total lapses amounted to Rs. 9,37,685-11-4. The net deficit, therefore, amounted to Rs. 9,24,178-9-3 and the principal works on which lapses occurred were :—

	Rs.	a.	p.
Construction of a New Outfall at Love Grove	31,582	11	1
Construction of various overbridges in the City	78,893	13	8
Construction of buildings for Primary Schools	26,559	5	6
Measures for relieving Surcharging of Sewers	26,167	8	4
Street Improvements in different places	1,44,497	5	8
Construction of New Municipal Workshops at Foras Road...	65,185	5	9
Providing fair weather cast iron covers and frames for water entrances in A Ward	19,881	7	10
Chawls for the Health Department Bigaries of F Ward ...	71,000	0	0
Widening and improving the Worli Road	71,194	4	1
Widening and improving buildings at Worli Hill for quarters for the Love Grove Station Engineering Staff ...	40,000	0	0
Widening and extending Nesbit Road	72,182	5	5
Widening Elphinstone Bridge	37,000	0	0
Construction of a road from Mount Road through Rose Cottage Lane to Matharpakhady	21,529	1	8
Construction of a Terminal Service Reservoir at Kirol near Ghatkoper	1,71,954	3	0
Total Rs. ...	8,77,627	8	0

The original estimates for the year aggregated Rs. 47,20,424-13-7 against which the actual expenditure was Rs. 28,56,540-0-9. Our loan balance at the close of the year aggregated Rs. 34,94,228-15-1 against Rs. 6,49,268-15-10 at the beginning of the year which was augmented by Rs. 57,01,500 being the amount of loans raised during the year.

PLAGUE EXPENDITURE.

Appendix No. 9-A.

54. The charges booked on account of Plague operations during the year, as shown in Appendix No. 9-A, amounted to Rs. 1,22,912 against Rs. 1,27,633 in the preceding year, showing a decrease of Rs. 4,721 which occurred principally in the outlay on the maintenance of the Maratha Hospital and on Disinfection.

55. The total expenditure incurred on Plague from the commencement of the operations to the close of the year under report aggregated Rs. 80,97,440 and was financed as under :—

		Rs.
(1)	From the 20 Lakhs Plague Loan	20,00,000
(2)	From the Government Contribution	14,50,000
(3)	Amount recovered from the City Improvement Trust under Section 79 (3) *b* (i) and (iii) of their Act No. IV of 1898 and transferred to meet the liability incurred out of Loan Funds	16,00,000
(4)	From Current Revenue	30,47,440
	Total Rs. ...	80,97,440

LIABILITIES AND ASSETS.

Appendix No. 10.

56. The gross liabilities of the Corporation were Rs. 7,19,18,303-8-1 at the beginning of the year, and were further increased by the raising of loans aggregating Rs. 57,01,500 during the year. At 31st March 1916, the gross liabilities stood at Rs. 7,94,04,335-9-9.

Assets.

		Rs. a. p.	Rs. a. p.
(*A*)	Cash and Paper available for expenditure on Revenue and Capital projects :—		
	(1) Cash Balance in Office and Bank Treasuries	3,25,997 15 11	
	(2) Surplus Funds Deposits	62,75,616 10 0	
	(3) Loan Funds	34,94,228 15 1	
			1,00,95,843 9 0
(*B*)	Sinking Funds Investments		1,65,04,880 8 0
(*C*)	Special Funds Investments		9,20,628 13 2
(*D*)	Advances recoverable, Contractors' Paper Deposits and Sales Stores		9,91,774 4 5
(*E*)	Reserve Stock		3,54,171 5 6
(*F*)	Properties (including unbooked)		8,23,26,533 7 6
(*G*)	Debt due by the City Improvement Trust for lands transferred to them		17,15,289 5 11
	Total Rs. ...		11,29,09,121 5 6

The Assests under Head (F) will however be subject to considerable modification when the work of revising the valuation of our properties, which is still in progress, is completed.

INVESTMENTS AND INVESTED BALANCES.

57. In the original Budget Estimates a sum of Rs. 1,45,000 was estimated to be derived from interest on investments of Surplus Loans and other balances. It was increased to Rs. 2,30,500 in the Revised Estimates. The actual realizations, however, amounted to Rs. 2,76,145 or Rs. 45,645 in excess of the Revised Estimates, due to additions made to the Surplus balances in consequence of increased income and decreased expenditure on Loan Works.

The income of Rs. 2,76,145 was derived from the following sources :—

		Rs.
(1)	On Current Account Deposits at 2 per cent. and 2½ per cent...	9,113
(2)	On Fixed Deposits	1,92,947
(3)	On Investments in Government and other Securities ...	74,085
		Rs. 2,76,145

58. Inclusive of investments on account of Sinking, Insurance, Worn-out Mains Renewals and Net Premia Funds, the total sum of investments and re-investments arranged for by this Department during the year aggregated Rs. 2,24,54,000, thus :—

		Rs.
(1)	Current Account Deposits	25,00,000
(2)	Fixed Deposits	1,85,00,000
(3)	Sinking and Special Funds	14,54,000
		Rs. 2,24,54,000

59. The average rate of interest on Fixed Deposits was 4·03 per cent. against 4·09 per cent. in the preceding year. The rates realized for Fixed Deposits ranged from 2½ per cent. to 7¼ per cent. The maximum rate realized in the preceding year was 5¾ per cent.

60. It will be observed from Appendix No. 10-B that the invested balances at the close of the year stood at Rs. 2,75,74,754-14-3 or Rs. 53,66,834-11-9 more than the preceding year.

61. The increase of Rs. 12,25,925 in the Surplus Funds was due to excess of income over expenditure, *viz.* Rs. 10,27,200 and to recoupment of advances of about Rs. 2,42,000 made for payment of claims in set-back schemes financed from Loan Funds.

The increase of Rs. 28,44,960 in the Loan Fund Balances was due to the raising of loans aggregating Rs. 57,01,500, the expenditure against which amounted to Rs. 28,56,540 only. The increase of Rs. 14,24,064 in the Sinking Fund requires no explanation. There was also a net increase of Rs. 12,485 in the Special Funds due to interest realizations and the investment of instalment after meeting the brokerage, stamp, printing, &c., charges in connection with the loans raised during the year.

The decrease of Rs. 1,40,600 in "Contractors', &c., deposits" was due to heavy refunds.

SPECIAL FUNDS.

Municipal Fire and Accident Insurance Fund.

62. After meeting the expenditure of Rs. 1,270 on account of damage by fire at Mahim stables, the fund with invesments of the annual instalment of Rs. 10,000 *plus* the accrued interest on invested balances increased from Rs. 2,00,643-11-2 on 31st March 1915 to Rs. 2,16,978-3-2 at the close of the year.

Worn-out Water Mains Renewal Fund.

63. After meeting the expenditure on renewal works this year, *viz.*, Rs. 6,292-6-8 the fund with the interest realized from invested balances increased from Rs. 5,55,616-9-9 at the close of the past year to Rs. 5,69,485-15-5 at the close of the year under review.

Net Premia Fund.

64. Owing to the heavy expenditure of Rs. 62,090-10-11 on account of brokerage, stamps, printing, &c., charges in connection with the second instalment of Rs. 14 lakhs of the 20 lakhs loan for Street Improvement, the 43 lakhs loan for Miscellaneous Works, and the balance of Rs. 1,500 of the 70 lakhs loan for the Re-duplication of Tansa Main raised during the year, the fund with the interest realized on invested balances and the extra realizations of interest on Sinking Fund investments was reduced from Rs. 1,51,883-2-1 at the beginning of the year to Rs. 1,34,164-10-7 at the close of the year.

WATER WORKS ACCOUNT.

Appendix No. 11.

Income and Expenditure Account.

65. In the original Budget Estimates, the Water Works income was placed at Rs. 20,95,000 (including interest of Rs. 40,000 on the invested balances) and the expenditure at Rs. 23,34,500 showing a deficit of Rs. 2,39,500 against which the income amounted to Rs. 23,23,455-14-0 showing an increase over the Budget Estimates of Rs. 2,28,455-14-0. The expenditure amounted to Rs. 23,46,985-10-7 or Rs. 12,485-10-7 more than the estimate. Adding the excess of expenditure over income, *viz.*, Rs. 12,485-10-7 to the estimated deficit of Rs. 2,39,500 we get a total deficit of Rs. 2,51,985-10-7.

Deducting from the latter figure the excess of income of Rs. 2,28,455-14-0 the net deficit amounts to Rs. 23,529-12-7.

As compared with the income (excluding the item of interest on investments) and the expenditure for the preceding year, the year under report shows an increase of Rs. 1,07,008-14-7 and Rs. 2,28,009-14-1 respectively. The increase in income was due to increased consumption of water through meters by Railways, Port Trust and Government Buildings and Factories.

The increase in expenditure was due to increased interest charges on account of 70 Lakhs Loan and the Water Works portion of 43 Lakhs Miscellaneous Works Loan and to provision of Sinking Fund instalment in respect of the former loan.

As required by Corporation Resolution No. 6570 of 15th February 1912, a detailed statement of income realized for the year under report as compared with the preceding five years is attached to Appendix No. 11.

ASSETS AND LIABILITIES.

Appendix No. 12.

66. The liabilities at the beginning of the year stood at Rs. 3,24,28,771-3-3. These were further increased to Rs. 3,26,30,771-3-3 during the year owing to the raising of Rs. 1,500 being the balance of the 70 Lakhs Loan for the Re-duplication of the Tansa Main and other auxiliary works and the Water Works portion of Rs. 2,00,500 in respect of 43 Lakhs Miscellaneous Works Loan. The payment of Rs. 25,696-12-0 to Government towards the reduction of the Vehar Debt and of Rs. 32,294-12-6 towards the repayment of the Water Works portion of the Drainage Loan of 1878 reduced the liabilities to Rs. 3,25,72,779-10-9 at the close of the year.

The assets aggregated Rs. 4,44,73,892-7-7 against Rs. 4,37,04,807-14-5 at the close of the year showing an increase of Rs. 7,69,084-9-2 which was made up of (1) works executed out of different loans and Reserve Fund (*vide* Appendix No. 9) and (2) additions to the Sinking Fund Investments.

From Appendix No. 12 it will be seen that the excess of assets over liabilities amounted to Rs. 51,85,954-8-7 after providing Rs. 60,88,694-9-9 for the Sinking Fund and Rs. 6,26,463-10-6 for the Special Funds.

SUSPENSE ACCOUNT.

A.—Deposits.

67. The cash deposits outstanding at the close of the year aggregated Rs. 6,04,214-6-0 against Rs. 6,59,085-15-7 in the year 1914-1915 and were made up of:—

		Rs.	a.	p.
(1)	Cash deposits from Contractors	2,25,473	11	8
(2)	Cash deposits received through Departmental Officers	1,17,897	1	6
(3)	Other cash deposits	1,98,766	1	11
(4)	Deposits on account of works performed for private parties	62,077	6	11
	Rs.	6,04,214	6	0

B.—Inter-Departmental Charges.

1. *Workshops.*

68. The opening balance was Rs. 23,250-10-6 or Rs. 440-14-7 less than in the preceding year.

The cost of labour and supervising staff employed and of stores used on the works turned out in the Shops during the year amounted to Rs. 2,81,238-5-9 against Rs. 2,53,721-11-0 in the previous year. The total outlay in the Workshops during the year, together with the opening balance aggregated Rs. 3,04,489-0-3. The recoveries made during the year including Rs. 139 realised by the sale of coal ashes and saw-dust and Rs. 2,507-1-9 realised by the sale of unserviceable stores and Rs. 184 realized by the hire of portable engine to the Water Works Department amounted to Rs. 2,72,006-15-11 and the outstanding at the end of the year including incomplete jobs and value of stores issued in March 1916 aggregated Rs. 47,559-10-7.

The outstandings are made up of the following items:—

	Rs.	a.	p.
Stores issued in March 1916 and charged in the accounts for 1915-1916 under the system of stores accounts	9,719	4	2
Outstanding bills	28,306	12	9
Incomplete jobs	9,533	9	8
Rs.	47,559	10	7

By charging 25 per cent. on all jobs, the sum of Rs. 53,197-5-5 was obtained, adding to which (1) the sum of Rs. 2,830-1-9 realised by the sale of unserviceable stores, coal ashes, saw-dust and hire of portable engine to the Water Works Department, and (2) Rs. 1,130-14-5 realised by the hire of plant, &c., the gross earnings of the Shops aggregated Rs. 57,158-5-7 from which the following Shop and Supervision, &c., charges amounting to Rs. 43,381-5-4 had to be made:—

		Rs.	a.	p.
(1)	Supervising Establishment, Rent and Contingencies	22,221	5	1
(2)	Shop charges	19,859	6	3
(3)	Sundry Miscellaneous charges	1,300	10	0
	Rs.	43,381	5	4

The net profit of the Workshops was thus Rs. 13,777-0-3 due to a larger number of jobs having been executed during the year and to the discontinuance of the rent payable to Government on account of land occupied by the old Workshops.

In arriving at this result no portion of the salary of the Deputy Executive Engineer, Mechanical Branch, no interest and Sinking Fund charges on capital, and no depreciation on buildings and machinery has been allowed for.

2. *Other Works.*

69. The outstanding balances on 31st March 1916 in respect of Departmental and Private Works executed by different branches of the Executive Engineer's Department (excluding Workshops) and the Health Department are contrasted below with those on 31st March 1915 :—

	Balance on 31st March 1915.	Balance on 31st March 1916.	More.	Less.	Remarks.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
A.—Departmental Works.					
(1) Drainage.	2,766 0 2	(*a*) 1,099 2 4	.....	1,666 13 10	(*a*) Out of this, Rs. 487-14-9 represent the value of stores issued in March 1916, and included in the accounts for 1915-16.
(2) Roads and Buildings Branch.	15,812 6 0	(*b*) 10,534 6 4	.....	5,277 15 8	(*b*) Out of this, Rs. 1,973-8-9 represent the value of stores issued in March 1916, and included in the accounts for 1915-16.
(3) Water Works Branch.	4,165 15 2	(*c*) 4,553 15 5	388 0 3	.....	(*c*) Out of this, Rs. 2,242-2-5 represent the value of stores issued in March 1916 and included in the accounts for 1915-16.
Rs. ...	22,744 5 4	16,187 8 1	388 0 3	6,944 13 6	
B—Private Works. Drainage Branch. On account of Ordinary Works.	4,434 12 6	(*d*) 6,664 8 9	2,229 12 3	.....	(*d*) Out of this, Rs. 57-9-6 represent the value of stores issued in March 1916, and included in the accounts for 1915-16.
Roads and Buildings Branch.	15,010 15 7	8,370 14 11	.....	6,640 0 8	
Water Works Branch.	6,444 3 2	(*e*) 5,559 7 10	.....	884 11 4	(*e*) Out of this, Rs. 1,325-9-5 represent the value of stores issued in March 1916, and included in the accounts for 1915-16.
Health Department (Removing Chokes).	1,637 15 9	1,164 11 6	.....	473 4 3	After adjustment of irrecoverable charges for 1912-1913 and 1913-14, amounting to Rs. 361-10-3, *vide* S. C. R. No. 513 of 19th April 1916.
Total Rs. ...	27,527 15 0	21,759 11 0	2,229 12 3	7,998 0 3	

The outstandings in respect of Departmental Works are due to the fact that several bills had to be kept back on account of excesses over grants. These will be adjusted on funds becoming available. The outstandings in respect of Private Works, Roads and Buildings Branch, are due to bills against the Bombay Electric Supply and Tramways Company, Limited, not having been recovered from them before the close of the year and those against the houseowners of private lanes not having been adjusted against the deposits owing to the work remaining incomplete. With regard to outstandings in respect of Private Works, Drainage Branch, the draining of private lanes is still in progress. In respect of Private Works, Water Works, several bills for water connections have remained unrecovered and the G. I. P. Railway and the Port Trust owe Rs. 1,430 for diverting water mains in Elphinstone Bridge Road.

Advances to Municipal Officers.

70. The outstandings on 31st March 1916 aggregated Rs. 39,032-15-4 against Rs. 51,301-3-3 on 31st March 1915. Rs. 6,403 represent the sums allotted to the different Heads of Departments as standing advances for contingent expenses, Rs. 4,000 is the sum advanced to meet legal costs in connection with an appeal to the Privy Council by Narma Brothers in regard to the acquisition of land at Elphinstone Road Overbridge, Rs. 7,035 is

the sum advanced to meet legal expenses in connection with an appeal against the G. I. P. Railway, Rs. 4,877 is an advance made to the Hydraulic Engineer to meet the expenditure in connection with the work of Ghatkopar Overbridge, and Rs. 1,739 to meet the cost of removal of Vehar Village. The remaining balance is comprised of small items which call for no remarks.

Advances to Contractors.

71. The outstandings at the close of the year amounted to Rs. 118-9-11 against Rs. 6 during 1914-15.

Miscellaneous.

72. Out of the outstandings of Rs. 2,20,298-9-7, the following are the principal items:—

	Rs.	a.	p.
(1) Acquisition of lands beyond the regular line of the street to be adjusted against the sale proceeds of the lands ...	1,86,667	5	0
(2) Acquisition of land for the new burning ground for Agris and Colis of the Sewri Section on behalf of Mr. Ismael Haji Cassum	10,680	14	5
(3) Arbitration and other expenses in connection with the purchase of the Tramways	5,623	14	10
(4) Expenditure in the suit filed by the Tramways Company against the Municipality	4,410	5	7
(5) Cost of filling in the Framji Kavasji Tank to be subsequently adjusted against the sale proceeds of reclaimed land.	3,832	6	2

The amount of Items Nos. 1 and 5 will be adjusted when the land is sold. The question of the recovery of the amount under Item No. 2 has been settled with the party's solicitors and the expenses incurred on the proceedings for the recovery of the amount spent by the Municipality in the acquisition of the land together with 6 per cent. interest on the amount paid as compensation for the land have been recovered from them, the land being retained by the Municipality for Municipal purposes. The use to which it is to be put is under consideration and the amount will be adjusted when the matter is settled and an additional grant obtained for the purpose. The adjustment of items Nos. 3 and 4 has yet to be effected.

Advances from Surplus Cash Balance for New Works to be subsequently provided for under new loans to be raised.

73. Up to 31st March 1916 the grants sanctioned by the Corporation from Surplus Cash Balance as advances for New Works on Capital Account amounted to Rs. 7,16,455-8-1 and the actual expenditure to Rs. 2,29,115-1-0 (*vide* Appendix No. 6-C).

Personal Account of the Chief Auditor and Accountant, B. B. & C. I. Railway.

An amount of Rs. 8,007 was advanced for constructing a culvert in connection with duplicating syphon No. 8. This will be adjusted when the accounts are submitted by the Railway Authorities.

Reserve Stock.

74. The receipts of General Stores during the year as per my books aggregated Rs. 7,47,098-11-8 and the issues Rs. 7,70,778-11-9, thus resulting in a further decrease of Rs. 23,680-0-1 in the balance of current stores. There was also a further reduction during the year in the balance of Surplus and Obsolete Stores from Rs. 4,846-14-11 to Rs. 4,581-7-8.

During the year 1914-15, the verification of stock was carried on by two independent verifiers. Mr. K. R. Vacha was asked to verify the stores at the Central Stores, the Bellasis Pipe Depot and the Municipal Workshops and Mr. A. D. Simkins to verify the stores on the line. As the work, entrusted to both of them, was not completed till the end of June 1915, it was not considered necessary to have a fresh checking of the number or quantity of the different articles during the year under review.

The printing of the exhaustive stores Vocabulary completed by Mr. Simkins in the preceding official year is in progress.

The balances of the general, *i.e.*, current serviceable stores are compared below for the last five years:—

	Rs.	a.	p.
Balance at the close of 1911-12	3,07,380	9	6
Balance at the close of 1912-13	3,01,553	0	8
Balance at the close of 1913-14	3,01,349	3	6
Balance at the close of 1914-15	2,78,486	2	0
Balance at the close of 1915-16	2,54,806	1	11

The balance of Reserve Stock in hand at the close of the year as per the General Books of this Office amounted to Rs. 3,54,171-5-6 against Rs. 3,91,994-5-0 at the close of the preceding year, showing a decrease of Rs. 37,822-15-6 as detailed below :—

DEPARTMENTS.	1914-1915.			1915-1916.			More.	Less.
	Serviceable Stores.	Surplus and Obsolete Stores.	Total.	Serviceable Stores.	Surplus and Obsolete Stores.	Total.		
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1. General Stores Department.	2,78,486 2 0	4,846 14 11	2,83,333 0 11	2,54,806 1 11	4,581 7 8	(a)2,59,387 9 7	.....	23,945 7 4
2. Water Works Imprest ...	4,488 15 5	.....	4,488 15 5	3,572 9 0	.....	3,572 9 0	.....	916 6 5
3. Executive Engineer's Department ...	659 12 0	.....	659 12 0	597 12 9	.....	597 12 9	.....	61 15 3
4. Line Suspense Account ...	1,03,512 8 8	.....	1,03,512 8 8	90,613 6 2	.....	90,613 6 2	.....	12,899 2 6
Total ...	3,87,147 6 1	4,846 14 11	3,91,994 5 0	3,49,589 13 10	4,581 7 8	3,54,171 5 6	.....	37,822 15 6
							Less—Increase Rs.	*Nil*
							Net—Decrease Rs.	37,822 15 6

(a) The difference between this amount and that shown by the Storekeeper is Rs. 12,934-9-1 which is due to the non-adjustment of the value of stores issued to the Health, Water, &c., Departments, on account of grants having been found insufficient and to the excesses and deficiencies shown in the verification sheets not having been adjusted during the year under review and to some minor adjustments which will be made in the accounts for 1916-17.

STREET IMPROVEMENTS.

75. The amounts made available on account of acquisition of set-backs during the year were as under :—

	Rs.	a.	p.
Budget provision from Revenue	1,00,000	0	0
Renewed grant	4,048	5	5
Budget provision from Capital	7,65,081	5	7
Rs.	8,69,129	11	0

Against this sum only Rs. 7,08,791-0-11 were actually paid leaving a balance of Rs. 1,60,338-10-1 which has been renewed for expenditure during 1916-1917.

After allowing for all ascertained time-barred claims, the undischarged commitments up to 30th June 1916, in regard to set-backs already acquired and sanctioned to be acquired amounted to Rs. 8,14,587 against which we have sanctioned funds aggregating Rs. 3,71,587 only.

In the light of past experience an increase of at least 30 per cent. on this amount owing to variation in rates by the time of payment appears justifiable. The excess will thus really stand at Rs. 5,75,900. To this has to be added the cost of the acquisition of property at Sonapur Lane and Musjid Bunder Road approved under Corporation Resolution Nos. 157 of 8th April 1915 and 7559 of 9th March 1916, aggregating Rs. 3,36,981 and the subjoined proposals aggregating Rs. 2,69,623 :—

	Rs.
Acquisition at Tardeo Road	1,93,000
At the junction of Musjid Bunder and Chakla Street... ...	35,770
At Love Grove Pumping Station Road	10,853
At Nakhoda Street	30,000
Rs.	2,69,623

GENERAL FINANCIAL POSITION.

76. On the latest budget data I estimate our Income and Expenditure and margin of borrowing powers for general purposes except Fire and Water Works as follows :—

Income as per Budget of 1916-17		Rs.	1,31,75,000
Deduct—			
Fire Tax	Rs. 2,02,200		
Water Tax	„ 23,14,000		
		„	25,16,200
Balance ...		„	1,06,58,800
Add—			
Difference between General Tax at 9½ per cent. and the maximum at 12 per cent. leviable under the Act ...		„	13,48,200
Total Income ...		„	1,20,07,000
Expenditure per Budget for 1916-17...		„	1,38,29,228
Deduct—			
(a) *Fire Brigade*—			
Ordinary expenditure ... Rs.	1,86,516		
Debt ... ... „	35,700		
Rs.	2,22,216		
(b) *Water Works*—			
Ordinary expenditure ... „	4,26,512		
Debt... ... ... „	18,45,500		
„	22,72,012		
		„	24,94,228
Net normal expenditure except Fire Brigade and Water Works		Rs.	1,13,35,000
Balance of taxation against which Loans can be raised for purposes other than Fire Brigade and Water Works... ...		„	6,72,000
Total		Rs.	1,20,07,000

Against this balance loans could be raised to the extent of Rs. 1,10,00,000. In addition we could, if necessary, raise very large sums for Water Works limited only by the tax the Corporation would be prepared to levy and for Fire Brigade purposes we could raise a further loan of Rs. 29,85,000.

TEST AUDIT.

77. Test Audit continued throughout the year. The question is before the Commissioner and the Corporation, and no remarks are therefore specially called for.

FIRE BRIGADE.

78. During the year the Fire Tax was levied at $\frac{3}{8}$ths per cent. and the actual realizations amounted to Rs. 2,06,494-5-5 being more than in the previous year by Rs. 14,476-3-2. The expenditure, on the Fire Brigade Department, including the cost of New Works amounting to Rs. 3,820-13-7, as also the interest and Sinking Fund charges on the Fire Brigade Loan and on a portion of the 55 lakhs loan was Rs. 1,92,455-3-0 against Rs. 1,85,577-6-11, including the cost of New Works amounting to Rs. 2,173-5-7 in the preceding year. It having been found that from the year 1908-09, the expenditure booked under the head "Fire Brigade" was exclusive of the outlay on "New Works", the total amount thus spent upto 1914-15, *viz.*, Rs. 33,047-9-4 has this year been included in the general expenditure thus reducing the surplus to the credit of the Fire Tax at 31st March 1915 from Rs. 1,59,441-6-8 to Rs. 1,26,393-13-4. Adding to this figure, the excess of Income over Expenditure this year, *viz.*, Rs. 14,039-2-5, the surplus amounts to Rs. 1,40,432-15-9. Deducting from the latter figure the sum of Rs. 15,399-4-11 to be renewed in 1916-17 on account of outstanding liabilities, the actual surplus on 31st March 1916 stands at Rs. 1,25,033-10-10.

GENERAL.

79. The following table shows the volume of work dealt with in my Department during the year under review as compared with previous years:—

Years.	Nature of Work.			Inward Letters.	Outward Letters.
	Cash Payments to Employés.	Receipt Vouchers.	Debit Vouchers.		
	Rs.	No.	No.	No.	No.
1897-98	19,93,311	23,217	53,907	20,362	6,117
1911-12	31,55,091	37,325	85,514	16,995	10,718
1912-13	34,68,577	39,993	90,657	18,513	10,298
1913-14	36,00,494	40,931	99,625	19,472	11,772
1914-15	38,69,310	38,675	90,924	19,746	11,952
1915-16	41,47,970	40,906	90,183	* 19,465	11,396
Percentages of increase in 1915-16 over 1897-98.	108·09	84·12	67·29	4·4 Decrease.	86·3

* Exclusive of bills, summaries, muster rolls, &c., which have been separately numbered.

80. I also subjoin a statement showing the cost of my Department in 1915-16 and 1897-98, and the percentage of cost to Income and Expenditure:—

Years.	Cost of Staff at maximum rate of pay.	Income.	Expenditure.	Percentage of Cost of Staff to Income.	Percentage of Cost of Staff to Expenditure.
	Rs.	Rs.	Rs.		
1897-98	62,754	(*a*) 65,98,064	(*b*) 68,86,527	·95	·91
1915-16	(*c*) 90,430	1,38,31,070	1,28,03,870	·65	·70
Increase	27,676 or 44·10 per cent. increase.	72,33,006 or 109·62 per cent. increase.	59,17,343 or 85·92 per cent. increase.	31·57 Decrease.	23·07 Decrease.

The percentage of cost of staff to Income and Expenditure for the year 1914-1915 was ·72 and ·72, respectively.

(*a*) Excluding a rebate of Rs. 4,37,055 to current revenue in respect of plague expenses debited to Revenue in 1896-97 and Rs. 1,10,442 on account of interest on the investments of Sinking and Special Funds.

(*b*) Excluding Rs. 5,00,000 on account of plague expenses debited to Revenue in 1897-98, which were subsequently transferred to Loan Fund and Rs. 1,10,442 on account of investments of interest realized on Sinking and Special Funds.

(*c*) Excluding cost of stores, establishment transferred to Central Stores and including Rs. 1,575 on account of plague staff employed in this Department.

81. The following are the Appendices attached to my report :—

No. 1.—Revenue Account.

No. 2.—Statement of Income realized during 1915-16.

No. 3.—Statement of Town Duties collected and Refunds allowed in 1915-16.

No. 3 (*a*).—Statement of Net Town Duties collected from 1905-06 to 1915-16.

No. 3 (*b*).—Statement of Gross Town Duties levied during the five years ending 31st March 1916, Refunds allowed and the Net Income realized during that period.

No. 3 (*c*).—Statement showing Town Duty Collection from each source month by month with the Refunds admitted for the year 1915-16, as contrasted with those for the year 1914-15.

No. 4.—Statement showing the final sanctioned expenditure grants for 1915-16.

No. 5.—Statement showing the expenditure for 1915-16 as compared with the final sanctioned grants and the actuals for the preceding year.

No. 5 (*a*).—Statement showing the expenditure incurred on new works (Revenue) as compared with the sanctioned grants and the unexpended balances renewed.

No. 6.—Statement showing the Surplus Cash Balance on 31st March 1916.

No. 6 (*a*).—Statement showing the amounts of loans raised, the expenditure incurred therefrom and the invested balances remaining on 31st March 1916.

No. 6 (*b*).—Statement showing (1) the various Municipal Loans and their amounts, (2) the expenditure incurred against each of them, (3) the amounts withdrawn temporarily from their utilized balances to meet the cost of new works, &c., and (4) invested balances of the Loans on 31st March 1916.

No. 6 (*c*).—Statement showing the expenditure advanced from Surplus Cash Balance for new works to be subsequently provided for under a new Loan to be raised.

No. 7.—Statement showing the outstanding Loans due by the Municipality on 31st March 1916.

No. 7 (*a*).—Statement showing the amount which should have accumulated in the Sinking Fund on the basis of the fixed instalments and the amount actually invested up to 31st March 1916.

No. 8.—Statement showing the interest outstanding on different Municipal Loans on 31st March 1916.

No. 9.—Statement showing works executed out of Loan Funds during 1915-16.

No. 9 (*a*).—Statement showing expenditure on Plague operations for 1915-16 contrasted with the figures for 1914-15.

No. 10.—Statement of Assets and Liabilities on 31st March 1916.

No. 10 (*a*).—Statement showing expenditure on different Loan Works up to 31st March 1916.

No. 10 (*b*).—Statement showing the Invested Surplus Loan and Reserve Fund Balances on 31st March 1916 as compared with those on 31st March 1915.

No. 11.—Water Works, Income and Expenditure Account, including Statement of Income realizations for 1915-16, & preceding five years from water-supply through meters.

No. 12.—Water Works Assets and Liabilities.

No. 13.—Statement of total Receipts and Disbursements for the year ending 31st March 1916.

No. 14.—Statements of Liabilities incurred on Street Improvements and the Rates and Amounts actually paid.

Nos. 15 & 15 (*a*).—Statement of Income and Expenditure of the Bombay Municipality from 1865 to the close of the financial year 1915-16.

No. 16.—Contrasted Statement of Income and Expenditure from the year 1865 to the Financial year 1915-16.

I have the honour to be,

Sir,

Your most obedient servant,

W. E. WAITE,

Chief Accountant.

Appendix No. 1.

Revenue Account for 1915-1916.

Revenue.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Taxation Proper.			
1. General Tax	64,37,750 12 8		
2. Wheel Tax and Tolls	5,18,773 6 10		
3. Town Duties	20,19,096 15 6		
4. Licenses	1,27,887 0 8		
5. Receipts from Government for Liquor Licenses.	1,13,750 0 0		
6. Receipts from Government for Tobacco Duty ...	3,04,644 3 1	85,51,602 6 4	
Services rendered.			
7. Halalkhore Tax	14,68,686 13 7		
8. Water Tax and other Miscellaneous Water Works Revenue	23,23,021 1 3	37,91,607 14 10	
Returns from Property and Miscellaneous.			
9. Market Receipts	5,80,754 0 6		
10. Public Gardens	8,851 2 0		
11. Tramway Rent	54,629 14 2		
12. Contribution from Municipal Servants towards Pension, &c., Fund	41,603 14 5		
13. Interest and Profit on Investments of Surplus Loan and other Balances...	2,76,144 12 2		
14. Miscellaneous (*a*)	5,25,876 2 5	14,87,859 13 8	
		1,38,31,070 2 10	
	Total Rs. ...		1,38,31,070 2 10

Expenditure.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
1. General Superintendence	3,19,659 15 8		
2. Assessment and Collection and Revenue and Refund Audit Departments	4,51,688 6 8		
3. Fire Brigade	1,92,455 3 0		
4. Public Gardens—Maintenance and New Works.	89,738 4 11		
5. Public Works (Engineer's) Department... ...	27,91,784 2 4		
6. New Works	2,21,419 5 11		
7. Public Health Department including Plague Expenses	25,16,322 6 9		
8. General Stores	38,276 13 0		
9. Primary Education	4,62,000 0 0		
10. Education (including Veterinary College, etc.) ...	81,345 14 10		
11. Hospitals	4,37,810 0 0		
12. Pensions, Gratuities and Compassionate Allowances	1,15,167 5 9		
13. Contribution to the City Improvement Trust ...	10,17,420 1 8		
14. Municipal Debt—			
Interest and Charges on Loans	29,76,601 2 1		
Reduction of Debt and payment of Sinking Fund	9,58,220 4 4	1,26,69,839 6 6	
15. Investments—			
Municipal Fire and Accident Insurance Fund...		10,000 0 0	
16. Miscellaneous (*b*)		1,24,030 7 0	1,28,03,869 13 6
	Excess of Income over Expenditure ...		10,27,200 5 4
	Total Rs. ...		1,38,31,070 2 10

	Rs. a. p.
(*a*) Miscellaneous Fines	43,160 11 4
Do. Receipts...	3,53,066 0 7
Do. Fees	1,00,847 11 3
Do. Savings	9,554 13 1
Profit on Municipal Workshops	13,777 0 3
Actual Profit on sale of Stores to Contractors, &c.	2,015 12 3
Sale-proceeds of Unserviceable Tools and Plant, &c.	3,354 1 8
Total Rs.	5,25,876 2 5

	Rs. a. p.
(*b*) Discretional Contingencies	2,656 13 5
Auditors' Allowance	10,000 0 0
Local Allowance	70,989 1 7
Contribution towards the expenses of the King George V. Anti-tuberculosis League.	10,000 0 0
Payment of a moiety (not exceeding Rs. 1,500) of the remuneration to be paid to Mr. W. A. Chambers for fixing the rateable value of buildings and lands in the City of Bombay vesting in His Majesty and beneficially occupied	1,500 0 0
Bonus equivalent to half-month's pay to certain employés of the Health Department for special work done in connection with conservancy work of Military Camps during the embarkation of the Indian Expeditionary force	2,884 8 0
Contribution towards the expenses of publishing a book called "The Milk Problem in Indian Cities" by Dr. L. L. Joshi, Municipal Analyst	1,000 0 0
Contribution towards the cost of Cadastral Survey of the Town and Island of Bombay	25,000 0 0
Total Rs.	1,24,030 7 0

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner.

Appendix

IN

STATEMENT showing the Net Receipts during the Financial year 1915-16 from all sources as con-

PARTICULARS.	Actuals for 1914-15.	Budget Estimate for 1915-16.	Revised Estimate for 1915-16.	Actuals for 1915-16.
1	2	3	4	5
	Rs. a. p.	Rs.	Rs.	Rs. a. p.
Taxation Proper.				
General Tax at 9½ per cent. (including Government and Port Trust Contributions) ...	48,49,431 4 8	48,19,750	53,14,000	52,31,256 7 3
Additional at 2 per cent. for Fire Brigade charges	1,92,018 2 3	1,90,250	2,06,000	2,06,494 5 5
	50,41,449 6 11	50,10,000	54,20,000	54,37,750 12 8
Wheel Tax and Tolls	5,19,818 7 11	5,00,000	5,25,000	5,18,773 6 10
Town Duties	9,32,309 15 6	15,00,000	18,00,000	20,19,096 15 6
Licenses—				
(*a*) Dangerous and Offensive Trades ...	1,05,824 14 0	97,000	1,07,000	1,12,720 2 0
(*b*) Streets and Buildings	7,195 0 0	5,000	5,000	6,010 0 0
(*c*) Land Conveyance, &c., Licenses ...	11,619 11 5	8,000	8,857	8,856 14 3
Receipts from Government for Liquor Licenses.	1,43,750 0 0	1,44,000	1,43,750	1,43,750 0 0
Do. do. Tobacco Duty ...	2,92,035 11 11	2,80,000	2,95,393	3,04,644 3 1
	70,57,003 3 8	75,44,000	83,05,000	85,51,602 6 4
Services rendered.				
Halalkhore Tax	14,17,647 7 10	14,00,000	14,60,000	14,68,586 13 7
Water Tax and other Miscellaneous Water Works Revenue	22,16,012 2 8	20,55,000	22,95,000	23,23,021 1 3
	36,33,659 10 6	34,55,000	37,55,000	37,91,607 14 10
Returns from Property and Miscellaneous.				
Market Receipts	5,94,294 7 3	5,75,000	5,80,000	5,80,754 0 6
Public Gardens	10,122 8 6	12,000	8,000	8,851 2 0
Tramway Rent	54,629 14 2	55,000	55,000	54,629 14 2
Miscellaneous Fines	34,725 11 2	35,000	35,000	43,160 11 4
Do. Receipts	5,31,391 8 7	2,50,000	3,00,000	3,53,066 0 7
Do. Fees	1,15,886 13 3	1,00,000	1,00,000	1,00,347 11 3
Do. Savings	10,978 11 10	12,000	12,000	9,554 13 1
Contribution from Municipal Servants towards Pension, &c., Fund	41,226 14 5	42,000	45,000	41,603 14 5
Profit on Municipal Workshops	5,206 13 6	2,000	2,000	18,777 0 3
Actual Profit on sale of Stores to Contractors,&c.	16,038 4 0	5,000	3,500	2,015 12 3
Sale Proceeds of Unserviceable Tools and Plant, &c.	7,047 1 2	5,000	5,000	3,954 1 8
Interest and Profit on Investments of Surplus Loan and other Balances	2,98,154 13 1	1,45,000	2,30,500	2,76,144 12 2
	17,22,703 8 11	12,38,000	13,75,000	14,87,859 13 8
Total Rs. ...	1,24,13,366 7 1	1,22,37,000	1,34,35,000	1,38,31,070 2 10
				Less
				Net Increase Rs.

W. E. WAITE,
Chief Accountant.

No. 2.

COME.

trasted with the Original Budget Estimate, the Revised Estimate and the Actuals for 1914-15.

As compared with the Original Estimate.		As compared with the Revised Estimate.		As compared with the Actuals for 1914-1915.	
More.	Less.	More.	Less.	More.	Less.
6	7	8	9	10	11
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
4,11,506 7 3	.....	17,256 7 3	.....	3,81,825 2 7	.....
16,344 5 5	.....	494 5 5	.....	14,476 3 2	.....
4,27,750 12 8	.....	17,750 12 8	.....	3,96,301 5 9	.....
18,773 6 10	.....	.....	6,226 9 2	.....	1,045 1 1
5,19,096 15 6	.....	2,19,096 15 6	.....	10,86,787 0 0	.....
15,720 2 0	.....	5,720 2 0	.....	3,895 4 0	.....
1,010 0 0	.....	1,010 0 0	.....	.....	1,185 0 0
856 14 3	.....	.....	0 1 9	.....	2,762 13 2
.....	250 0 0	.....	.....	.....	.....
24,644 3 1	.....	9,251 3 1	.....	12,608 7 2	.....
10,07,852 6 4	250 0 0	2,52,829 1 3	6,226 10 11	14,99,592 0 11	4,992 14 3
68,586 13 7	.....	8,586 13 7	.....	50,939 5 9	.....
2,68,021 1 3	.....	28,021 1 3	.....	1,07,008 14 7	.....
3,36,607 14 10	.....	36,607 14 10	.....	1,57,948 4 4	.....
5,754 0 6	.....	754 0 6	.....	.....	13,540 6 9
.....	3,148 14 0	851 2 0	.....	.....	1,271 6 6
.....	370 1 10	.....	370 1 10	.....	.....
8,160 11 4	.....	8,160 11 4	.....	8,435 0 2	.....
1,03,066 0 7	....	53,066 0 7	.....	.....	1,81,325 8 0
347 11 3	.....	347 11 3	.....	.....	15,539 2 0
.....	2,445 2 11	.....	2,445 2 11	.....	1,423 14 9
.....	396 1 7	.....	3,396 1 7	377 0 0	.....
11,777 0 3	.....	11,777 0 3	.....	8,570 2 9	.....
.....	2,984 8 9	.....	484 3 9	.....	14,022 7 9
.....	1,045 14 4	.....	1,045 14 4	.....	3,092 15 6
1,31,144 12 2	.....	45,644 12 2	.....	.....	22,010 0 11
2,60,250 4 1	10,390 6 5	1,20,601 6 1	7,741 8 5	17,382 2 11	2,52,225 14 2
16,04,710 9 3	10,640 6 5	4,10,038 6 2	13,968 3 4	16,74,922 8 3	2,57,218 12 5
10,640 6 5		13,968 3 4		2,57,218 12 5	
15,94,070 2 10		3,96,070 2 10		14,17,703 11 9	

S. M. EDWARDES,
Municipal Commissioner.

Appendix

STATEMENT showing the quantity and value of several articles upon which Town Duty was

DUTY COLLECTED BY	GRAIN AND PULSE AT 6 ANNAS PER CANDY.			FLOUR OF ALL SORTS AT 75 PER CENT. ON THE RATE AT THE TIME BEING LEVIED ON THE GRAIN FROM WHICH FLOUR IS PREPARED.			WINES AND SPIRITS AT 4 ANNAS PER GALLON.			BEER AT 6 PIES PER GALLON.		
	Candies.	Furrah.	Amount of Duty.	Candies.	Furrah.	Amount of Duty.	Gallons.	Pints.	Amount of Duty.	Gallons.	Pints.	Amount of Duty.
BOMBAY PORT TRUST.			Rs. a. p.			Rs. a. p.			Rs. a. p.			Rs. a. p.
April 1915	1,28,449	6	48,168 10 3	.....	..	.....	80,986	3	20,246 9 9	22,356	7	713 10 5
May .. .. .. ,,	1,32,678	3	49,754 6 6	.....	..	.....	76,565	6	19,141 6 3	42,925	4	1,341 6 9
June .. .. .. ,,	95,933	6	35,975 2 8	.....	..	.....	92,766	5	23,191 10 4	33,581	..	1,049 6 6
July .. .. .. ,,	98,720	7	14,520 5 3	.....	..	.....	1,09,414	1	28,353 8 8	50,910	..	1,590 15 0
August .. .. .. ,,	86,509	3	10,630 15 0	.....	..	.....	83,087	7	20,765 15 7	76,558	..	2,454 15 6
September .. .. .. ,,	46,962	3	17,610 12 6	57	5	16 4 0	81,270	5	20,317 10 4	90,687	4	2,833 15 2
October .. .. .. ,,	48,362	..	17,385 12 1	103	4	29 2 0	88,688	..	21,064 8 0	1,47,279	..	4,602 7 6
November .. .. .. ,,	47,256	2	17,721 1 3	17	2	4 13 0	79,810	7	19,952 11 7	94,460	..	2,951 14 0
December .. .. .. ,,	2,09,752	2	78,252 1 6	82	..	23 1 0	85,482	3	21,370 9 3	72,563	4	2,267 9 9
January 1916	1,34,845	6	50,567 2 6	.....	4	0 2 0	89,998	7	22,499 11 9	84,188	..	2,630 14 0
February .. .. ,,	2,02,165	4	76,313 2 6	205	7	57 15 0	1,05,722	5	26,430 10 8	1,16,931	..	3,654 1 6
March .. .. ,,	1,48,914	6	55,843 0 6	269	..	101 0 0	1,16,104	2	29,026 0 10	1,15,082	..	3,596 5 0
Total ..	12,51,553	7	4,69,332 8 6	825	7	232 4 0	10,83,848	3	2,70,962 1 6	9,50,002	3	29,687 9 8
G. I. P. RAILWAY.												
April 1915	1,39,054	..	52,145 4 0	3	1	0 14 0	1,001	4	250 6 0	298	..	9 5 0
May .. .. .. ,,	1,21,966	1	45,737 7 0	.....	..	.....	230	..	57 8 0	96	..	3 0 0
June .. .. .. ,,	41,781	7	15,668 8 0	2	4	0 11 0	407	4	101 14 0	54	..	1 11 0
July .. .. .. ,,	33,003	5	12,376 6 0	1	6	0 8 0	246	..	61 8 0	54	..	1 11 0
August .. .. .. ,,	90,050	4	33,768 15 0	12	..	3 6 0	407	..	101 12 0	70	..	2 3 0
September .. .. ,,	1,36,884	1	49,081 8 6	1	4	0 7 0	238	..	64 8 0	16	..	0 8 0
October .. .. .. ,,	67,956	4	25,483 11 0	.....	..	.....	883	..	220 12 0	16	..	0 8 0
November .. .. ,,	32,254	4	30,845 7 0	.....	5	0 3 0	599	4	149 14 0	116	..	3 10 0
December .. .. ,,	1,01,341	6	38,003 2 0	3	3	0 15 0	639	4	159 14 0	944	..	29 8 0
January 1916	1,13,562	..	42,585 12 0	.....	..	.....	208	..	51 8 0	16	..	0 8 0
February .. .. ,,	84,014	5	31,505 8 0	1	3	0 6 0	155	..	38 12 0	1,479	..	46 3 0
March .. .. .. ,,	1,53,894	1	59,960 5 0	3	3	0 15 0	622	..	155 8 0	24	..	0 12 0
Total ..	11,65,763	6	4,37,161 8 6	29	5	8 5 0	5,856	..	1,413 12 0	3,182	..	99 7 0
B. B. & C. I. RY.												
April 1915	45,449	5	17,043 10 0	117	6	38 2 0	143	..	35 12 0	.....	..	.....
May .. .. .. ,,	1,16,197	2	43,573 15 0	200	7	73 5 0	140	..	35 0 0	.....	..	.....
June .. .. .. ,,	81,494	3	30,560 6 0	495	3	180 14 0	85	..	21 4 0	56	..	1 12 0
July .. .. .. ,,	56,626	4	20,929 7 0	283	4	104 2 0	104	..	26 0 0	.....	..	.....
August .. .. .. ,,	34,084	2	12,781 9 0	145	4	46 15 0	290	..	72 8 0	8	..	0 4 0
September .. .. ,,	29,044	3	10,891 10 0	58	2	16 6 0	690	2	172 9 0	180	..	4 1 0
October .. .. .. ,,	20,820	..	7,807 8 0	406	7	114 7 0	270	..	67 8 0	.....	..	.....
November .. .. .. ,,	42,079	7	15,779 15 0	318	5	89 10 0	1,482	..	370 8 0	.....	..	.....
December .. .. .. ,,	22,332	6	8,362 6 6	260	5	81 7 0	1,456	..	366 8 0	.....	..	.....
January 1916	29,875	3	11,203 4 6	319	4	89 14 0	2,141	..	535 4 0	.....	..	.....
February .. .. ,,	33,397	3	12,711 9 6	400	7	118 6 0	4,239	..	1,062 4 0	.....	..	.....
March .. .. .. ,,	27,977	6	10,491 10 0	260	7	78 5 0	3,495	..	873 12 0	.....	..	.....
Total ..	5,38,799	4	2,02,049 14 0	3,647	5	1,025 15 0	14,555	2	3,688 13 0	194	..	6 1 0
GRAND TOTAL ..	29,55,117	1	11,08,543 15 0	4,903	1	1,286 8 0	11,04,058	5	2,76,014 10 6	9,53,379	3	29,793 1 8
Deduct— Refunds passed by the Revenue and Refund Audit Officer ..	12,57,172	4	4,71,439 11 0	1,52,927	6	43,010 15 0	1,19,973	2	29,993 5 0	5,31,316	..	16,603 10 0
Net Revenue ..	16,98,944	5	6,37,104 4 0	.....	..	41,744 7 0	9,84,085	3	2,46,021 5 6	4,22,063	3	13,189 7 8
Excess Refund over Collection	..	..	.....	1,48,424	5	41,744 7 0	.....	..	.....	.....	..	.....

ABSTRACT.

Balance of collections on 31st March 1915 due by—			
Port Trust	Rs. a. p. 13,563 4 9	Rs. a. p.	Rs. a. p.
G. I. P. Railway	26,862 1 6		
B. B. & C. I. Railway	2,018 13 0		
		42,444 3 3	
Add— Collections in 1915-1916—			
Port Trust	27,12,946 2 10		
G. I. P. Railway	5,94,080 3 3		
B. B. & C. I. Railway	3,82,174 7 9		
		36,89,101 2 10	
		37,02,545 6 1	
Deduct— Refunds paid in 1915-1916		16,23,607 2 0	
	Rs. a. p.		
Balance of collections on 31st March 1916 due by— Port Trust	4,852 11 3		
G. I. P. Railway	58,881 12 6		
B. B. & C. I. Railway ..	1,970 6 0		
	65,704 13 9		
		16,89,311 15 9	
Total ..		Rs. 20,13,233 6 4	
Add— Amounts credited in the books of this office in 1915-16		8,989 11 9	
		20,22,223 2 1	
Less— Amount of commission not adjusted in the books of this office in 1915-16 for want of funds—	Rs. a. p.		
Port Trust	1,517 6 6		
G. I. P.	1,608 12 1		
		3,126 2 7	
Total ..		Rs. 20,19,096 15 6	*vide* Appendix No. 2

W. E. WAITE,

Chief Accountant.

No. 3.

levied during 1915-16, under Section 192 (1) of the City of Bombay Municipal Act of 1888.

SUGAR AT 8 ANNAS PER CWT.				GHEE AT 10 ANNAS PER MAUND.			TIMBER AT 2½ PER CENT. ON MARKET VALUE.			FIREWOOD AT 2 ANNAS PER CANDY.			Total Monthly Collections.
Cwts.	qrs.	lbs.	Amount of Duty.	Maunds.	Seers.	Amount of Duty.	Value.	Amount of Duty.		Candies.	Maunds.	Amount of Duty.	
			Rs. a. p.			Rs. a. p.	Rs. a. p.	Rs. a. p.				Rs. a. p.	Rs. a. p.
303,446	1	8	1,51,722 2 7	24,547	18	15,342 2 6	8,20,524 9 4	20,763 1 10		71,476	..	8,934 8 0	2,65,891 13 4
98,886	0	0	49,443 0 0	23,379	9	14,612 0 3	8,77,723 8 8	21,943 1 5		37,033	14	4,629 2 0	1,64,914 8 8
104,147	0	11	52,073 8 9	23,749	16	14,843 10 0	7,49,321 7 4	18,733 0 7		201	14	25 3 0	1,45,897 9 10
257,692	0	21	1,28,796 1 6	23,749	23	14,843 7 9	6,38,125 0 0	15,703 2 0		64	..	8 0 0	2,01,815 8 2
492,816	0	7	2,10,408 0 6	21,303	9	13,314 8 3	8,19,708 2 0	20,492 11 3		48	14	5 13 0	2,78,133 15 1
555,575	3	14	1,27,787 15 0	24,476	33	15,298 1 0	9,90,526 0 0	24,763 2 0		3,900	14	1,237 9 0	2,09,865 5 7
465,894	3	7	2,29,947 6 6	28,963	31	18,102 5 9	5,63,832 11 4	14,095 13 1		25,866	14	3,233 5 0	3,12,060 11 11
125,561	3	14	57,780 15 0	14,896	13	9,928 15 3	8,27,710 6 8	20,692 12 2		24,036	14	3,004 1 0	1,37,640 3 3
102,218	0	14	51,109 1 0	21,323	22	13,327 3 6	8,67,210 6 8	21,680 4 2		33,030	7	4,128 12 6	1,89,963 10 8
286,593	2	21	1,43,296 13 6	24,340	33	15,213 0 3	4,98,126 14 0	12,453 2 9		45,125	7	5,641 14 6	2,26,302 13 3
319,992	0	0	1,59,996 0 0	29,891	23	18,682 3 9	10,84,333 15 4	27,114 9 7		56,687	..	6,960 14 0	3,18,709 8 0
220,026	0	17	1,10,013 1 3	25,593	34	15,996 2 6	5,53,491 4 0	13,837 4 6		67,980	7	8,497 8 6	2,36,910 7 1
2,980,760	0	22	14,90,375 1 7	293,216	27	1,83,259 12 9	92,91,483 5 4	2,32,287 1 4		3,74,477	21	46,809 11 6	27,12,946 2 10
8,207	2	14	4,103 13 0	2,201	23	1,438 7 9	3,877 8 0	96 15 0		1,390	...	173 12 0	58,218 12 9
6,682	2	0	3,341 4 0	2,548	24	1,592 14 0	8,550 0 0	213 12 0		848	..	106 0 0	51,061 13 0
7,428	2	14	3,714 5 0	2,963	34	1,852 6 6	3,193 8 0	79 1 0		1,061	..	132 10 0	21,550 13 6
12,788	1	0	6,394 0 0	4,326	36	2,704 5 0	2,513 8 0	62 13 0		431	..	53 14 0	21,045 3 0
13,126	3	14	6,567 15 0	2,876	38	1,799 5 6	2,360 0 0	59 0 0		800	..	100 0 0	42,402 8 6
12,802	1	0	6,401 2 0	20,088	30	12,555 11 8	2,987 8 0	74 11 0		1,485	..	185 10 0	68,845 2 0
4,075	2	14	2,037 13 6	26,488	35	16,555 4 9	12,881 8 0	321 9 0		640	..	80 0 0	44,343 9 9
9,199	1	0	4,599 10 0	19,817	21	12,385 15 3	7,127 8 0	178 7 0		271	14	33 15 0	45,198 1 3
5,952	2	0	2,481 4 0	17,032	25	10,645 6 3	6,355 0 0	158 14 0		1,126	..	140 13 0	52,619 11 3
13,411	3	0	7,705 14 0	15,198	28	9,499 5 6	2,252 8 0	64 13 0		852	..	106 8 0	60,014 4 6
11,504	1	14	5,752 8 6	14,986	25	9,366 10 3	5,880 0 0	147 0 0		431	..	60 2 0	46,916 12 3
16,024	1	0	8,012 2 0	17,488	30	10,930 7 6	2,837 8 0	64 11 0		352	..	44 0 0	79,178 12 6
1,25,812	3	14	62,906 6 7	145,041	39	90,651 3 9	69,905 0 0	1,522 10 0		9,737	14	1,217 3 0	5,94,980 9 3
204	2	0	102 4 0	14,145	4	8,840 11 0	4,325 0 0	108 2 0		11,989	..	1,498 10 0	27,662 3 0
135	2	0	67 12 0	16,626	4	10,328 13 0	3,210 0 0	80 4 0		12,174	..	1,521 12 0	55,680 14 0
10	3	14	5 7 0	19,615	22	12,259 11 6	2,270 0 0	56 12 0		11,909	..	1,488 10 0	44,524 12 6
328	1	0	164 2 0	32,418	28	20,268 9 0	1,455 0 0	36 6 0		11,233	..	1,404 2 0	42,376 12 0
1,214	3	14	607 7 0	18,451	24	11,907 4 0	270 0 0	16 12 0		4,548	..	681 0 0	25,607 11 0
3,714	3	0	1,857 6 0	10,752	8	6,720 2 0	725 0 0	18 2 0		7,481	14	935 3 0	20,615 7 0
657	3	14	328 15 0	11,774	13	7,358 15 3	6,495 0 0	162 6 0		20,210	..	2,526 4 0	18,365 15 3
1,614	2	0	807 6 0	14,745	30	9,216 1 6	2,650 0 0	63 12 0		5,460	..	682 8 0	27,009 12 6
1,140	1	0	570 2 0	8,709	16	5,443 6 0	5,455 0 0	136 6 0		13,113	..	1,639 2 0	16,819 5 6
2,062	2	0	1,031 4 0	12,590	5	7,868 12 3	2,382 0 0	74 8 0		20,347	14	2,543 7 0	23,548 6 3
13	2	14	6 13 0	13,431	20	8,394 11 0	13,042 8 0	326 1 0		26,834	..	3,354 4 0	25,974 0 6
2	3	0	1 5 0	15,926	33	9,954 4 3	4,800 0 0	120 0 0		15,833	..	1,977 14 0	23,492 4 3
11,100	2	0	5,550 4 0	189,682	7	1,18,551 5 9	47,977 8 0	1,199 7 0		1,61,222	..	20,152 12 0	3,52,174 7 9
3,097,668	2	8	16,48,831 12 7	627,939	33	3,92,462 6 3	94,00,365 13 4	2,35,009 2 4		5,45,437	7	68,179 10 6	26,60,101 2 10
1,879,096	2	0	9,39,548 4 0	181,455	..	1,13,409 6 0	11,77,520 0 0	29,438 0 0		....	..	.....	16,93,448 3 0
1,218,567	0	8	5,58,282 8 7	446,484	33	2,79,053 0 3	82,22,845 13 4	2,05,571 2 4		5,45,437	7	68,179 10 6	20,08,402 6 10
.....			.....	....	..	.....	.....	.....		....	..	.....	41,744 7 0
												Net Revenue .. Rs.	19,66,657 15 10

S. M. EDWARDES.
Municipal Commissioner.

Appendix No. 3-A.

STATEMENT showing the net Revenue derived on different dutiable articles during the last ten years commencing from 1906-07 to 1915-16.

Articles.	1906-07.	1907-08.	1908-09.	1909-10.	1910-11.	1911-12.	1912-13.	1913-14.	1914-15.	1915-16.
	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 6.	@ annas 6.	@ annas 6.	@ annas 6.	@ annas 6.	@ annas 6.
Grain	3,00,796 3 6	2,90,720 4 0	3,22,386 2 0	2,70,212 1 9	4,43,484 15 8	4,67,041 1 4	4,26,970 4 8	4,23,562 8 5	4,35,874 6 9	6,37,104 4 0
	@ annas 3.	@ annas 3.	@ annas 3.	@ annas 3.	@ annas 4½.	@ annas 4½.	@ annas 4½.	@ annas 4½.	@ annas 4½.	@ annas 4½.
Flour	—23,680 15 0	—20,701 15 6	—16,150 11 9	—15,267 7 0	—26,023 5 0	—32,597 0 3	—33,911 15 0	—37,921 5 0	—37,985 1 0	—41,744 7 0
	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.	@ annas 4.
Wines and Spirits ...	2,37,582 7 4	2,51,335 6 4	2,29,959 12 10	2,37,077 4 5	2,38,315 5 0	2,20,332 11 1	2,29,366 0 10	2,24,814 11 9	2,34,402 3 9	2,46,021 5 6
	@ pies 6.	@ pies 6.	@ pies 6.	@ pies 6.	@ pies 6.	@ pies 6.	@ pies 6.	@ pies 6.	@ pies 6.	@ pies 6.
Beer	11,645 10 10	15,143 9 0	8,853 4 3	12,868 2 7	11,293 15 0	11,518 1 3	10,217 10 5	15,216 6 4	14,359 8 5	13,189 7 8

	@ annas 8.	@ annas 8.	@ annas 8.	@ annas 8.	@ annas 8.	@ annas 3.	@ annas 8.	@ annas 8.	@ annas 8.	@ annas 8.
Sugar...	3,69,549 2 0	3,73,378 14 6	3,61,917 15 6	4,38,451 8 3	4,46,887 7 8	1,49,829 15 1	6,20,853 11 2	5,56,178 9 9	—1,23,089 10 3	5,59,283 8 7
	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.	@ annas 10.
Ghee	2,42,731 10 9	2,53,304 12 0	2,51,745 12 1	2,45,195 1 10	2,54,687 13 2	2,69,599 15 6	2,37,377 2 6	2,55,818 1 0	2,62,513 3 9	2,79,053 0 3
	@ 2½°/o	@ 2½°/o	@ 2½°/o	@ 2½°/o	@ 2½°/o	@ 2½°/o	@ 2½°/o	@ 2½°/o	@ 2½°/o	@ 2½°/o
Timber	1,77,011 10 4	1,52,349 0 4	1,64,969 12 11	1,74,592 10 10	1,53,924 14 5	1,95,427 10 10	1,70,192 13 2	2,09,486 8 6	1,98,770 0 0	2,05,571 2 4
	@ anna 1.	@ anna 1.	.....	.....	@ annas 2.	@ annas 2.	@ annas 2.	@ annas 2.	@ annas 2.	@ annas 2.
Firewood	36,168 12 3	13 6 0	.....	.....	70,248 5 1	72,056 1 10	70,327 10 8	69,738 3 9	60,844 9 6	68,179 10 6
Total Rs...	18,51,804 10 0	13,15,543 4 8	13,23,181 15 10	13,68,119 6 8	15,92,169 7 0	13,53,208 8 8	17,31,893 6 5	17,16,893 12 6	10,45,689 4 11	19,66,657 15 10

N.B.—This statement shows the net Revenue after deducting from gross collections refunds *passed* for payment by the Revenue and Refund Audit Officer though such refunds may not actually have been fully paid.

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner.

Appendix

STATEMENT showing the actual Collections, Refunds admitted and Net

ARTICLES.	1911-12.			1912-13.		
	Gross Collections.	Refunds.	Net Revenue.	Gross Collections.	Refunds.	Net Revenue.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Grain	9,88,014 10 4	5,20,973 9 0	4,67,041 1 4	10,55,139 2 8	6,28,218 14 0	4,26,970 4 8
Flour	1,018 4 9	33,615 5 0	—32,597 0 3	1,654 2 0	35,566 1 0	—33,911 15 0
Wines and Spirits	2,47,953 10 1	27,620 15 0	2,20,332 11 1	2,63,503 8 10	34,137 8 0	2,29,366 0 10
Beer	39,320 12 3	27,802 11 0	11,518 1 3	36,604 15 5	26,387 5 0	10,217 10 5
Sugar	12,82,756 0 1	11,32,926 1 0	1,49,829 15 1	19,59,380 12 2	13,38,527 1 0	6,20,853 11 2
Ghee	2,90,479 12 6	20,879 13 0	2,69,599 15 6	2,58,210 12 6	20,333 10 0	2,37,877 2 6
Timber	2,26,649 15 10	31,222 5 0	1,95,427 10 10	2,03,058 1 2	32,865 4 0	1,70,192 13 2
Firewood	72,056 1 10	.....	72,056 1 10	70,327 10 8	.....	70,327 10 8
Total Rs. ...	31,48,249 3 8	17,95,040 11 0	13,53,208 8 8	38,47,929 1 5	21,16,035 11 0	17,31,893 6 5

W. E. WAITE,
Chief Accountant.

No. 3-B.

Revenue during the five years from 1911-12 to 1915-16.

1913-14.			1914-15.			1915-16.		
Gross Collections.	Refunds.	Net Revenue.	Gross Collections.	Refunds.	Net Revenue.	Gross Collections.	Refunds.	Net Revenue.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
9,75,648 0 5	5,52,085 8 0	4,23,562 8 5	7,76,784 9 9	3,40,910 3 0	4,35,874 6 9	11,08,543 15 0	4,71,439 11 0	6,37,104 4 0
833 8 0	38,754 8 0	**—37,921 5 0**	1,569 12 0	39,494 13 0	**—37,985 1 0**	1,266 8 0	43,010 15 0	**—41,744 7 0**
2,63,146 1 9	38,331 6 0	2,24,814 11 9	2,68,328 5 9	33,926 2 0	2,34,402 3 9	2,76,014 10 6	29,993 5 0	2,46,021 5 6
38,920 5 4	23,703 15 0	15,216 6 4	38,223 1 5	23,863 9 0	14,359 8 5	29,793 1 8	16,603 10 0	13,189 7 8
21,51,182 13 9	15,95,004 4 0	5,56,178 9 9	9,04,601 15 9	10,27,691 10 0	**—1,23,089 10 3**	15,48,831 12 7	9,89,548 4 0	5,59,283 8 7
2,71,867 14 0	16,049 13 0	2,55,818 1 0	3,38,109 11 9	75,596 8 0	2,62,513 3 9	3,92,462 6 3	1,13,409 6 0	2,79,053 0 3
2,31,917 6 6	22,430 14 0	2,09,486 8 6	2,39,354 15 0	40,584 15 0	1,98,770 0 0	2,35,009 2 4	29,438 0 0	2,05,571 2 4
69,738 3 9	.....	69,738 3 9	60,844 9 6	.....	60,844 9 6	68,179 10 6	.....	68,179 10 6
40,03,254 0 6	22,86,360 4 0	17,16,893 12 6	26,27,757 0 11	15,82,067 12 0	10,45,689 4 11	36,60,101 2 10	16,93,443 3 0	19,66,657 15 10

S. M. EDWARDES,
Municipal Commissioner.

Appendix

Statement showing Town Duty Collections from each source month by month with

MONTH.	Grain and Pulse.		Flour of all sorts.		Wines and Spirits.		Beer.	
Duty Collected by	1914-15.	1915-16.	1914-15.	1915-16.	1914-15.	1915-16.	1914-15.	1915-16.
BOMBAY PORT TRUST.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
April	78,408 2 9	48,168 10 3	....	....	25,669 10 6	20,246 9 9	3,186 11 6	713 10 5
May	35,875 15 4	49,754 6 6	....	....	23,812 10 2	19,141 6 9	1,378 2 3	1,341 6 9
June	29,095 15 6	35,975 2 8	....	....	22,478 3 8	23,191 10 4	3,264 1 6	1,049 6 6
July	37,393 9 6	14,620 6 3	....	....	23,683 15 4	24,352 8 8	3,909 5 6	1,590 15 0
August	27,729 14 6	10,690 15 0	....	....	19,394 5 8	20,766 15 7	2,459 0 3	2,454 15 8
September	19,518 1 7	17,610 12 6	....	16 4 0	16,676 6 9	20,317 10 4	1,012 4 0	2,873 15 9
October	6,706 6 3	17,385 12 1	....	29 2 0	23,332 15 5	21,564 8 0	5,429 13 9	4,602 7 6
November	12,809 13 9	17,721 1 3	....	4 13 0	20,341 4 0	19,952 11 7	3,977 5 0	2,951 14 0
December	33,901 13 1	75,282 1 6	....	23 1 0	22,490 13 11	21,370 9 3	4,467 4 9	2,247 9 9
January	14,850 6 0	50,567 2 6	....	0 2 0	21,351 9 8	22,492 11 9	2,814 7 11	2,635 14 3
February	39,233 11 9	75,813 2 6	....	57 14 0	22,502 0 1	26,450 10 8	3,725 9 9	3,654 1 6
March	27,441 4 9	35,843 0 6	....	101 0 0	24,958 11 7	29,026 0 10	1,808 15 3	3,536 5 0
Total ..	3,62,840 2 9	4,69,332 8 6	....	232 4 0	2,66,639 13 9	2,70,962 1 6	36,134 1 5	29,687 9 8
G. I. P. RAILWAY.								
April	28,231 3 0	52,145 4 0	....	0 14 0	10 14 0	250 8 0	1 11 0	9 5 0
May	21,741 14 0	45,737 7 0	....	....	41 8 0	57 2 0	2 2 0	3 0 0
June	15,232 3 0	15,668 3 0	0 1 0	0 11 0	17 0 0	101 14 0	2 1 0	1 11 0
July	22,360 7 0	12,376 6 0	0 1 0	0 8 0	24 0 0	61 8 0	2 9 0	1 11 0
August	5,088 8 0	33,768 15 0	0 2 0	3 6 0	59 4 0	101 12 0	2 0 0	2 3 0
September	5,983 5 0	49,081 8 6	0 5 0	0 7 0	129 12 0	66 8 0	1 8 0	0 8 0
October	13,795 3 0	25,493 11 0	0 1 0	....	192 9 0	220 12 0	18 3 0	0 8 0
November	25,471 12 0	20,845 7 0	238 15 0	0 2 0	168 12 0	149 14 0	17 1 0	8 10 0
December	29,426 14 0	24,002 2 0	3 3 0	0 15 0	28 0 0	159 14 0	9 8 0	20 8 0
January	25,540 0 0	42,256 12 0	0 2 0	....	206 12 0	51 8 0	8 11 0	0 8 0
February	28,275 11 0	31,565 8 0	....	0 6 0	262 8 0	38 12 0	8 10 0	46 3 0
March	38,492 1 0	59,960 6 0	1 6 0	0 15 0	86 8 0	155 8 0	51 14 0	0 12 0
Total ..	2,65,232 1 0	4,37,161 8 6	244 4 0	8 5 0	1,254 7 0	1,413 12 0	116 14 0	99 7 0
B. B. & C. I. RAILWAY.								
April	11,461 4 0	17,043 10 0	66 8 0	33 2 0	....	35 12 0	....	....
May	20,383 4 0	43,573 15 0	104 5 0	73 8 0	7 0 0	35 0 0	1 10 0	....
June	16,423 5 0	30,560 6 0	83 4 0	130 14 0	1 8 0	21 4 0	0 8 0	1 12 0
July	7,814 4 0	20,822 7 0	8 8 0	164 2 0	0 8 0	26 0 0	....	....
August	9,626 15 0	19,781 9 0	46 15 0	40 15 0	....	72 8 0	....	0 4 0
September	12,278 1 0	10,891 10 0	237 7 0	16 6 0	29 0 0	172 9 0	....	4 1 0
October	14,656 15 0	7,807 8 0	66 8 0	114 7 0	31 13 0	67 8 0	....	....
November	17,160 7 0	15,779 15 0	365 15 0	39 10 0	8 4 0	379 8 0	....	....
December	10,978 13 0	8,382 6 6	60 9 0	81 7 0	1 12 0	366 8 0	....	....
January	12,502 3 0	11,203 4 0	41 11 0	89 14 0	60 2 0	535 4 0	....	....
February	8,243 2 0	12,711 9 6	95 1 0	118 6 0	62 0 0	1,062 4 0	....	....
March	7,173 13 0	10,491 10 0	140 0 0	73 8 0	230 4 0	873 12 0	....	....
Total ..	1,48,712 8 0	2,02,049 14 0	1,265 8 0	1,025 15 0	434 1 0	3,635 12 0	2 2 0	6 1 0
GRAND TOTAL ..	7,76,784 9 9	11,08,543 15 0	1,509 12 0	1,266 8 0	2,68,328 5 9	2,76,914 10 6	38,223 1 5	29,793 1 8
Deduct—								
REFUNDS PASSED BY THE R. & B. A. OFFICER	3,40,910 3 0	4,71,439 11 0	39,494 13 0	43,010 15 0	33,926 2 0	29,993 5 0	23,863 9 0	16,603 10 0
NET REVENUE ..	4,35,874 6 9	6,37,104 4 0	-37,985 1 0	-41,744 7 0	2,34,402 3 9	2,46,921 5 6	14,359 8 5	13,189 7 8

* Revenue from Town Duty

			Rs. a. p.
For 1914-1915	.. .. ..		10,45,689 4 11
For 1915-1916	.. .. ..		19,66,657 15 10
Increase	..	Rs.	9,20,968 10 11

Add—Refunds admitted by the R. & R. A. Officer for 1914-15 .. .. Rs. a. p. 15,22,067 12 0
Refunds passed by the Account Office in 1914-15.. .. .. 16,71,917 8 0

Difference .. Rs. 89,849 12 0

Difference between collections payable on 1st April 1914 and 1st April 1915—

Rs.	a.	p.
20,384	8	2
42,444	3	3
21,559	11	1

	Rs. a. p.						Rs. a. p.
Add—Difference between the amount credited in 1914-15 and credited in 1915-16	7,019 13 5 6,989 11 9	1,069 14 4		23,629 9 5		1,13,579 5 5	10,34,348 0 4
Refunds admitted by the R. & R. A. Officer for 1915-16			Rs.	16,93,443 3 0			
Refunds passed by the Account Office in 1915-16			,,	16,23,607 2 0			
Difference ..			Rs.	69,836 1 0			

Deduct—Difference between the collections payable on 1st April 1915 and 1st April 1916—

Rs.	a.	p.
42,444	3	3
66,704	13	9
23,260	10	6

	Rs. a. p.						
Difference between the amount credited in 1915-16 and to be credited in 1916-17	8,989 11 9 3,126 2 7	5,863 9 2		17,397 1 4			52,438 15 8
Increase shown in Appendix No. 2						Rs.	10,86,787 0 0

W. E. WAITE,
Chief Accountant.

No. 3-C.

the refunds admitted for the year 1915-16 as contrasted with those for the year 1914-15.

Sugar.		Ghee.		Timber.		Firewood.		Total monthly collection.	
1914-15.	1915-16.	1914-15.	1915-16.	1914-15.	1915-16.	1914-15.	1915-16.	1914-15.	1915-16.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1,42,765 1 3	1,51,723 2 7	15,736 4 0	15,342 2 6	19,798 4 4	20,763 1 10	8,852 9 6	8,934 5 0	2,94,467 8 10	2,66,891 13 4
67,977 0 9	49,443 0 0	14,962 10 6	13,352 0 3	34,196 8 4	21,943 1 5	5,744 4 0	4,629 3 0	1,83,087 9 4	1,54,614 8 8
1,636 8 3	52,073 8 9	7,708 11 3	14,849 10 0	18,371 4 0	18,733 0 7	99 3 6	25 3 0	82,873 15 8	1,45,897 9 10
3,961 2 6	1,28,736 1 6	11,700 15 6	14,843 7 9	23,043 14 11	15,703 2 0	6 6 6	8 0 0	1,02,774 5 3	2,01,815 8 2
63,706 12 3	2,14,408 0 6	15,069 0 6	13,314 8 3	13,584 10 2	20,492 11 3	5 14 9	5 13 0	1,42,922 12 4	2,78,133 15 1
42,886 14 0	1,27,787 15 0	9,161 12 6	15,208 1 0	23,446 11 7	24,763 2 0	46 15 0	1,237 9 0	1,12,699 1 5	2,69,886 5 7
44,828 6 6	2,32,947 6 6	14,154 5 0	18,102 5 9	8,189 7 8	14,095 13 1	1,875 14 0	3,323 5 0	1,08,811 4 7	3,12,060 11 11
71,367 14 0	62,780 15 0	14,548 10 9	9,928 15 3	10,734 14 1	20,092 12 2	3,039 6 0	3,507 1 0	1,36,819 3 7	1,37,540 3 5
1,27,247 13 3	51,109 1 0	20,986 2 6	13,327 3 6	14,052 6 2	21,695 4 2	3,385 13 6	4,128 12 6	2,27,002 2 8	1,89,203 10 8
31,194 14 9	1,43,228 13 6	20,718 9 6	15,213 0 3	25,922 9 0	12,453 2 9	4,915 3 3	5,641 14 6	1,21,511 6 1	2,22,392 13 3
1,44,192 8 6	1,59,196 0 0	10,234 13 9	18,832 3 9	33,545 5 9	27,114 9 7	6,882 15 9	6,960 14 0	2,64,017 1 4	3,18,708 8 0
1,00,654 15 9	1,10,013 1 9	12,365 14 3	15,996 2 6	10,947 2 0	13,837 4 6	3,378 4 6	3,497 8 6	1,92,205 4 1	2,36,910 7 1
8,47,550 15 9	14,80,375 1 7	1,68,358 1 0	1,83,259 12 9	2,36,124 2 0	2,32,287 1 4	43,534 6 6	46,809 11 6	19,63,151 11 2	27,12,946 2 10
1,503 2 0	4,103 13 0	547 12 9	1,438 7 9	226 15 0	96 15 0	234 1 0	173 12 0	28,755 10 9	68,218 12 9
2,984 6 0	3,341 4 0	692 0 9	1,592 14 0	97 6 0	213 12 0	383 15 0	106 0 0	25,723 3 9	51,051 13 0
1,901 7 0	3,714 5 0	642 5 9	1,852 6 6	127 12 0	79 1 0	198 12 0	132 10 0	17,842 9 9	21,550 13 6
2,640 14 9	6,384 2 0	977 4 9	2,704 5 0	285 0 0	62 13 0	84 5 0	53 14 0	26,364 8 9	21,645 3 0
5,781 4 0	5,887 15 0	1,540 13 9	1,799 5 6	263 12 0	59 0 0	197 0 0	109 0 0	13,932 11 9	42,402 8 6
3,080 9 0	6,931 2 9	3,217 2 9	12,938 11 6	405 12 0	74 11 0	187 13 0	135 10 0	13,967 2 9	68,845 2 9
6,831 15 0	2,337 13 0	6,976 13 6	15,499 4 9	16 4 0	321 9 0	85 13 0	80 0 0	26,916 13 6	44,343 9 9
4,684 7 0	4,590 10 0	3,308 5 3	12,385 15 3	32 12 0	179 7 0	117 8 0	33 15 0	42,963 8 3	48,138 1 3
5,905 8 0	3,481 4 0	3,960 8 3	10,645 6 3	193 4 0	158 14 0	344 0 0	140 12 0	39,775 13 3	59,619 11 3
3,628 8 0	7,705 14 0	2,985 8 0	9,499 5 6	42 14 0	64 13 0	370 0 0	106 8 0	32,370 7 0	60,014 4 6
5,460 11 0	5,752 8 0	3,386 12 9	9,386 10 3	209 0 0	147 0 0	205 2 0	60 2 0	37,814 6 9	49,916 12 3
2,834 5 0	8,017 2 0	2,212 8 3	10,920 7 6	258 13 0	64 11 0	196 8 0	44 0 0	43,733 15 3	79,173 12 6
48,919 0 0	62,996 7 0	30,348 0 6	90,651 3 9	2,149 8 0	1,522 10 0	2,384 13 0	1,217 3 0	3,49,648 15 6	5,94,980 8 3
21 10 0	102 4 0	8,092 11 0	8,840 11 0	23 7 0	108 2 0	1,130 0 0	1,492 10 0	20,795 8 0	27,602 3 0
5 2 0	67 12 0	5,958 13 0	10,328 13 0	129 6 0	80 4 0	648 2 0	1,521 12 0	27,237 10 0	55,680 14 0
73 15 0	5 7 0	7,230 13 0	12,259 11 6	390 0 0	56 12 0	1,210 15 0	1,488 10 0	25,374 4 0	41,554 12 6
27 6 0	164 2 0	11,971 15 9	20,258 9 0	5 0 0	26 6 0	991 1 0	1,404 2 0	20,818 7 9	43,976 12 0
43 2 0	607 7 0	12,938 13 6	11,907 4 0	65 0 0	16 12 0	1,271 12 0	681 0 0	23,192 15 6	26,007 11 0
70 8 0	1,857 6 0	8,848 4 6	6,720 2 0	11 4 0	18 2 0	991 12 0	935 3 0	22,586 4 6	20,615 7 0
.....	328 15 0	10,716 5 3	7,858 15 3	67 6 0	162 6 0	888 2 0	2,526 4 0	26,427 3 3	18,365 15 3
69 13 0	807 6 0	12,936 12 0	9,216 1 6	82 8 0	63 12 0	988 4 0	682 8 0	31,612 15 0	27,069 12 6
4,429 2 0	570 2 0	17,879 13 0	5,443 6 0	86 10 0	136 6 0	1,455 10 0	1,639 2 0	34,361 3 0	15,619 5 6
2,778 8 0	1,031 4 0	20,564 6 3	7,893 13 3	38 2 0	74 8 0	1,662 8 0	2,543 7 0	37,647 9 3	23,345 6 3
635 13 0	6 13 0	13,395 7 0	8,394 11 0	136 4 0	326 1 0	2,069 6 0	3,354 4 0	24,538 1 0	25,974 0 6
1,976 10 0	1 6 0	10,209 8 0	9,954 4 3	78 4 0	120 0 0	1,617 14 0	1,977 14 0	21,434 5 0	23,492 4 3
10,132 0 0	5,550 4 0	1,39,463 10 3	1,18,551 5 9	1,081 5 0	1,199 7 0	14,925 6 0	20,162 12 0	3,15,956 6 3	3,52,174 7 9
9,04,601 15 9	15,48,831 12 7	3,38,109 11 9	3,92,462 6 3	2,79,354 15 0	2,35,009 2 4	60,844 9 6	68,179 10 6	26,27,757 0 11	36,60,101 2 10
10,27,691 10 0	9,89,548 4 0	75,596 8 0	1,13,409 6 0	40,584 15 0	29,438 0 0	.....	.....	15,82,067 12 0	16,93,443 3 0
1,23,089 10 3	5,59,283 8 7	2,62,513 3 9	2,79,053 0 3	1,98,770 0 0	2,05,571 2 4	60,844 9 6	68,179 10 6	* 10,45,689 4 11	*19,66,657 15 10

S. M. EDWARDES,
Municipal Commissioner.

Appendix No. 4.

CONTRASTED STATEMENT showing the Original Budget Grants for 1915-16, Renewed Grants for 1914-15 and previous years, Additional Grants, Transfers, Modifications, as per Revised Estimate for 1915-16, and the Grants as finally sanctioned.

PARTICULARS.	Original Grants sanctioned by the Corporation under Section 129 of the Municipal Act.	Additional Grants sanctioned by the Corporation under Section 131 (1).	Additional Grants sanctioned by the Corporation in respect of unexpended balances of Grants for 1913-14 and previous years required for expenditure during 1915-16 and of transfers sanctioned in 1914-15 but not utilized in that year and Grants for 1914-15, one wholly or partially unlized in that year.	Lapsed Grants for 1914-15 renewed by the Standing Committee in 1915-16, under Section 132.	*Add*—Transfers.	*Less*—Transfers.	Total.	*Less*—Anticipated Savings as per Revised Estimates for 1915-16.	Final Sanctioned Grants.
1	2	3	4	5	6	7	8	9	10
GENERAL SUPERINTENDENCE—	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Corporation and Standing Committee Establishment	79,156 0 0	1,087 9 3	....	897 2 11	3,172 8 0	47 8 0	84,265 12 2	....	84,265 12 2
Municipal Commissioner's Personal Office Establishment ..	65,173 0 0	....	....	15 11 11	401 12 0	1 12 0	65,588 11 11	....	65,588 11 11
General Office Establishment ..	84,448 0 0	1,202 9 3	2,562 5 3	11,932 13 5	2,870 2 0	....	1,03,015 13 11	....	1,03,015 13 11
Accounts and Expenditure, Audit Establishment	92,102 0 0	5 8 0	....	337 5 9	141 8 0	141 8 0	92,444 13 9	....	92,444 13 9
Total Rs.	3,20,879 0 0	2,295 10 6	2,562 5 3	13,183 2 0	6,585 14 0	190 12 0	3,45,316 3 9	....	3,45,315 3 9
ASSESSMENT & COLLECTION DEPT.—									
Property and Wheel Tax Estt. ..	2,23,061 0 0	....	1,271 0 0	3,089 3 6	950 0 0	1,373 0 0	2,28,498 3 6	....	2,28,498 3 6
Town Duty Collection	1,07,099 0 0	8,400 0 0	....	7 0 0	4,370 0 0	4,000 0 0	1,15,777 0 0	....	1,15,777 0 0
Tolls Collection	550 0 0	....	....	....	....	....	550 0 0	137 8 0	412 8 0
Licensing Establishment	27,418 0 0	3,750 0 0	1,311 10 10	....	100 0 0	1,300 0 0	31,319 10 10	1,500 0 0	29,819 10 10
Revenue and Refund Audit Office Establishment	76,048 0 0	12,052 0 0	.....	163 6 6	1,212 0 0	....	89,475 6 6	....	89,475 6 6
Total Rs.	4,34,107 0 0	24,212 0 0	2,582 10 10	3,259 9 11	6,632 0 0	7,173 0 0	4,63,620 4 9	1,637 8 0	4,61,982 12 9
FIRE BRIGADE	1,99 513 12 11	3,976 11 4	15,406 14 0	7,302 9 3	2,319 1 0	6,226 1 0	2,22,292 15 6	162 8 0	2,22,130 7 6
Total Rs.	1,99 513 12 11	3,976 11 4	15,406 14 0	7,302 9 3	2,319 1 0	6,226 1 0	2,22,292 15 6	162 8 0	2,22,130 7 6
MAINTENANCE OF PUBLIC GARDENS									
Victoria Gardens ..	74,418 0 0	133 10 6	4,557 3 4	11,811 14 6	3,925 0 0	1,685 0 0	93,150 12 4	....	93,150 12 4
Elphinstone Circle Garden ..	1,292 0 0	....	....	258 7 2	....	....	1,550 7 2	....	1,550 7 2
Falkland Road do. ..	294 0 0	....	....	....	....	....	294 0 0	....	294 0 0
Northbrook do. ..	1,376 0 0	5 8 0	....	56 11 4	....	....	1,438 3 4	....	1,438 3 4
Sir C. Jehangir Garden at Mahim ..	363 0 0	....	....	6 8 1	....	....	369 8 1	....	369 8 1
Bazar Gate Street Garden ..	244 0 0	....	....	....	....	....	244 0 0	....	244 0 0
Dick's Tank do. ..	194 0 0	....	100 0 0	7 4 11	....	....	301 4 11	....	301 4 11
Esplanade Bandstand Green ..	2,889 0 0	....	470 9 7	190 2 11	445 0 0	....	3,974 12 6	....	3,974 12 6
Chowpatty Bandstand	923 0 0	....	....	....	165 0 0	559 0 0	1,090 0 0	....	1,090 0 0
Flora and the Wellington Fountains and the Queen's Statue	325 0 0	....	277 10 4	....	....	....	602 10 4	....	602 10 4
Malabar Hill Garden	....	....	157 0 0	493 0 0	....	....	650 0 0	....	650 0 0
New Works Gardens	....	4,449 0 0	3,971 9 9	5,224 12 0	....	....	13,695 5 9	....	13,695 5 9
Total Rs.	82,300 0 0	4,588 2 6	9,534 1 0	18,048 12 11	4,535 0 0	1,685 0 0	1,17,361 0 5	....	1,17,361 0 5
PUBLIC WORKS (ENGINEER'S DEPARTMENT.)—									
I—*General Supervision and Miscellaneous Duties*	95,675 0 0	....	....	402 14 2	2 12 0	24 14 0	96,995 12 2	225 0 0	95,770 12 2
II—*Mechanical Branch*—									
A. Workshops	....	....	....	....	....	....	....	....	....
B. Maintenance of Air C. Station at Colaba ..	35,323 0 0	....	....	225 0 0	1,900 0 0	750 0 0	36,708 0 0	....	36,708 0 0
C Do. of Love Grove P. Station ..	1,91,732 0 0	79 2 1	....	1,480 11 7	18,050 0 0	38,706 0 0	1,72,635 13 8	9,000 0 0	1,63,635 13 8
D. Do. of Air C. Station at Love Grove	93,004 0 0	2,001 4 5	2,218 10 10	559 14 8	14,931 0 0	1,200 0 0	1,11,514 13 11	1,000 0 0	1,10,514 13 11
E. Do. of Storm-water Sluices ..	2,966 0 0	....	....	....	1,400 0 0	....	3,466 0 0	....	3,466 0 0
III—*Sanitary*—									
Disposal of Town Sweepings ..	95,000 0 0	20 15 0	705 0 0	889 4 10	2,300 0 0	2,800 0 0	96,115 3 10	....	96,115 3 10
IV—*Drainage*—									
A. Miscellaneous Drainage ..	2,76,835 0 0	386 6 0	....	4,968 9 7	13,000 0 0	3,850 0 0	2,92,229 15 7	....	2,92,229 15 7
B. Maintenance of Sluices ..	3,782 0 0	....	....	....	....	150 0 0	3,582 0 0	....	3,582 0 0
V—*Streets and Buildings*—									
A. Inspection and Supervision ..	2,09,151 0 0	....	....	1,575 0 0	500 0 0	500 0 0	2,10,726 0 0	....	2,10,726 0 0
B. Public Lighting	4,42,270 0 0	20,850 0 0	29,484 2 9	3,568 13 0	2,600 0 0	3,000 0 0	4,95,772 15 9	....	4,95,772 15 9
C. Road Watering	74,500 0 0	1,500 0 0	37,956 3 8	165 12 6	400 0 0	....	1,14,522 5 11	....	1,14,522 5 11
C-1. Oiling and Tarring Roads ..	1,00,000 0 0	....	....	5,171 1 6	....	364 0 0	1,04,807 1 6	....	1,04,807 1 6
D. Roads and Footpaths ..	6,88,788 0 0	17,269 6 1	63,508 10 11	40,963 0 1	9,550 0 0	15,006 0 0	8,05,073 1 1	1,000 0 0	8,04,073 1 1
E. Street Improvements... ..	1,30,000 0 0	....	35,813 6 10	4,048 5 5	....	....	1,69,866 12 3	....	1 69,866 12 3
F. Miscellaneous	850 0 0	....	.. ..	165 0 0	....	....	1,015 0 0	....	1,015 0 0
VI—*Special Provision for Cleaning, Lighting, &c., Port Trust Wharves Roads, etc.* ..	43,238 0 0	....	....	....	....	....	43,238 0 0	....	43,238 0 0
VII—*Water Works*	3,77,212 0 0	21,156 4 10	11,936 8 6	59,690 7 8	8,867 13 0	13,667 13 0	4,64,895 5 0	....	4,64,895 5 0
Total Rs. ..	28,59,326 0 0	63,233 6 6	1,81,508 1 8	1,23,813 15 0	78,301 9 0	79,018 11 0	32,22,164 4 8	11,245 0 0	32,10,919 4 8
Carried forward Rs. ..	38,96,125 12 11	98,345 14 9	2,11,594 0 4	1,65,608 1 1	93,273 8 0	94,293 8 0	43,70,753 13 1	13,045 0 0	43,57,708 13 1

Appendix No. 4—*continued.*

PARTICULARS.	Original Grants sanctioned by the Corporation under Section 129 of the Municipal Act.	Additional Grants sanctioned by the Corporation under Section 131 (1).	Additional Grants sanctioned by the Corporation in respect of unexpended balances of Grants for 1913-14 and previous years required for expenditure during 1915-16 and of transfers sanctioned in 1914-15 but not utilized in that year, and Supplementary Grants for 1914-15 now wholly or partially utilized in that year.	Lapsed Grants for 1914-15 renewed by the Standing Committee in 1915-16 under Section 132.	*Add*—Transfers.	*Less*—Transfers.	Total.	*Less*—Anticipated Savings as per Revised Estimates for 1915-16.	Final Sanctioned Grants.
1	2	3	4	5	6	7	8	9.	10
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ..	38,96,125 12 11	98,345 14 8	2,13,694 0 4	1,65,608 1 1	98,373 8 0	94,293 8 0	43,70,753 13 1	13,045 0 0	43,57,708 13 1
PUBLIC HEALTH DEPARTMENT—									
General Supervision	1,34,227 0 0	....	....	750 8 2	2,850 0 0	74 0 0	1,37,853 8 2	....	1,37,853 8 2
Conservancy Branch	18,28,141 0 0	732 4 8	54,250 11 6	28,371 11 3	39,576 0 0	61,616 0 0	18,91,026 11 5	2,949 0 0	18,87,077 11 5
Markets and Slaughter Houses ..	2,09,347 0 0	510 0 0	11,970 15 1	19,998 15 1	8,974 0 0	7,526 0 0	2,42,525 14 2	....	2,42,525 14 2
Registration of Births and Deaths	92,752 0 0	1,990 0 0	....	869 0 0	1,060 0 0	710 0 0	95,951 0 0	2,094 0 0	93,857 0 0
Cemeteries	15,849 0 0	22 0 0	603 0 0	13 0 0	....	4,425 0 0	11,939 0 0	538 0 0	11,401 0 0
Laboratory	16,578 0 0	....	1,652 4 6	1,200 0 0	175 0 0	1,600 0 0	19,005 4 6	1,532 0 0	16,472 4 6
Mahaluxmi Dhobiwada	18,735 0 0	56 7 3	....	792 13 8	494 0 0	....	20,074 6 11	308 0 0	19,766 6 11
Milch-Cattle Stables and Rooms ..	6,557 0 0	....	....	204 14 6	866 0 0	....	7,681 14 6	21 0 0	7,660 14 6
Dispensaries	17,287 0 0	....	....	.....	3,375 0 0	....	18,662 0 0	....	18,662 0 0
Rustomji Jamsetji Dharamsala, Falkland Road	735 0 0	2 12 0	....	414 10 8	....	....	1,152 6 8	288 0 0	864 6 8
Infectious Diseases	61,581 0 0	5 8 0	129 8 7	1,705 0 0	1,810 0 0	3,834 0 0	61,397 0 7	1,080 0 0	60,317 0 7
Vaccination	29,565 0 0	2 12 0	....	990 0 0	3,445 0 0	869 0 0	33,433 12 0	759 0 0	32,674 12 0
Malaria	56,000 0 0	....	2,345 0 0	1,800 0 0	....	10,315 0 0	49,830 0 0	2,212 0 0	47,718 0 0
Plague	1,40,000 0 0	....	1,050 0 0	2,550 0 0	5,500 0 0	16,700 0 0	1,32,400 0 0	5,340 0 0	1,27,060 0 0
Lethal chamber for dogs	3,372 0 0	....	....	....	....	2,000 0 0	1,372 0 0	523 0 0	849 0 0
Total Rs. ..	26,28,757 0 0	3,321 11 11	71,701 7 8	59,715 11 6	68,099 0 0	1,09,168 0 0	27,22,894 15 0	17,725 0 0	27,04,669 15 0
NEW WORKS	32,384 0 0	1,15,236 13 0	2,69,455 6 0	53,102 11 0	47,014 0 0	1,900 0 0	5,16,312 14 0	34,665 0 0	4,80,647 14 0
Total Rs. ..	32,384 0 0	1,15,236 13 0	2,69,455 6 0	53,102 11 0	47,014 0 0	1,900 0 0	5,16,312 14 0	34,665 0 0	4,80,647 14 0
GENERAL STORES ESTABLISHMENT	35,784 0 0	113 4 0	3,195 9 10	756 11 8	2,842 4 0	1,078 4 0	41,413 9 6	.....	41,413 9 6
Total Rs. ..	35,784 0 0	113 4 0	3,195 9 10	756 11 8	2,842 4 0	1,078 4 0	41,413 9 6	.....	41,413 9 6
EDUCATION—									
Primary Education	4,62,000 0 0	....	....	....	....	....	4,62,000 0 0	....	4,62,000 0 0
School for Deaf and Dumb Mutes..	8,000 0 0	....	....	....	....	....	8,000 0 0	....	8,000 0 0
Veterinary College	2,500 0 0	....	....	....	....	....	2,500 0 0	....	2,500 0 0
Victoria and Albert Museum ..	17,345 0 0	5 8 0	4,725 0 0	548 5 10	440 0 0	440 0 0	22,523 13 10	500 0 0	22,023 13 10
Victoria Jubilee Technical Institute	20,000 0 0	....	....	....	....	....	20,000 0 0	....	20,000 0 0
Schools Committee's Establishment	14,758 0 0	....	....	....	....	2,000 0 0	12,758 0 0	....	12,758 0 0
Victoria Memorial School for the Blind	2,500 0 0	....	....	....	....	....	2,500 0 0	....	2,500 0 0
Prince of Wales Museum	25,000 0 0	....	....	....	....	....	25,000 0 0	....	25,000 0 0
Total Rs. ..	5,47,003 0 0	5 8 0	4,725 0 0	548 5 10	440 0 0	2,440 0 0	5,60,281 13 10	500 0 0	5,59,781 13 10
HOSPITALS—									
Acworth Leper Asylum at Matunga	20,000 0 0	....	....	....	....	2,025 0 0	17,975 0 0	165 0 0	17,810 0 0
Medical Institutions	4,14,500 0 0	....	....	....	....	....	4,14,500 0 0	....	4,14,500 0 0
Adams' Wylie Hospital	4,000 0 0	....	....	....	....	....	4,000 0 0	....	4,000 0 0
Bombay Sanitary Association ..	1,500 0 0	....	....	....	....	....	1,500 0 0	....	1,500 0 0
Total Rs. ..	4,40,000 0 0	....	....	....	....	2,025 0 0	4,37,975 0 0	165 0 0	4,37,810 0 0
MISCELLANEOUS—									
Pensions, Gratuities and Compassionate Allowances	1,22,000 0 0	6,283 14 8	5,406 5 4	13,180 0 8	....	....	1,46,850 4 8	....	1,46,850 4 8
Discretional Contingencies ..	7,900 0 0	....	40 0 0	1,660 0 0	....	664 0 0	8,036 0 0	....	8,036 0 0
Auditor's Allowances	10,000 0 0	....	....	....	....	....	10,000 0 0	....	10,000 0 0
Local Allowance	75,000 0 0	....	....	150 0 0	....	....	75,150 0 0	....	75,150 0 0
Contribution towards the expenses of King George V Anti-Tuberculosis League	10,000 0 0	....	....	....	....	....	10,000 0 0	....	10,000 0 0
Miscellaneous Carried over Rs. ..	2,24,900 0 0	6,283 14 8	5,446 5 4	14,970 0 8	....	664 0 0	2,50,036 4 8	....	2,50,036 4 8
Carried over Rs. ..	75,80,058 12 11	2,17,013 3 8	5,60,671 7 10	2,79,729 9 0	2,11,568 12 0	2,10,904 12 0	86,38,132 1 5	66,100 0 0	85,72,032 1 5

Appendix No. 4—*concluded.*

PARTICULARS.	Original Grants sanctioned by the Corporation under Section 126 of the Municipal Act.	Additional Grants sanctioned by the Corporation under Section 131 (1).	Additional Grants sanctioned by the Corporation under Section 131 (2) in excess of sums provided for 1913-14 and previous years required for expenditure during 1915-16 and of transfers sanctioned in 1914-15 but not utilized in that year, and of Budget Grants for 1914-15 not wholly or partially utilized in that year.	Lapsed Grants for 1914-15 restored by the Standing Committee in 1915-16 under Section 132.	*Add*—Transfers.	*Less*—Transfers.	Total.	*Less*—Anticipated Savings as per Revised Estimates for 1915-16.	Final sanctioned Grants.
1	2	3	4	5	6	7	8	9	10
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ..	75,80,653 12 11	2,17,013 3 8	5,60,671 7 10	2,79,729 9 0	2,11,568 12 0	2,10,904 12 0	86,38,182 1 5	66,100 0 0	85,72,082 1 5
Brought forward Rs. ..	2,24,000 0 0	6,283 14 8	5,448 5 4	14,970 0 8	....	664 0 0	2,50,036 4 8	....	2,50,036 4 8
MISCELLANEOUS—*contd.*									
Moiety of remuneration to be paid to Mr. W. A. Chambers for fixing the rateable value of Government Buildings and Lands in the City of Bombay..	....	....	1,500 0 0	....	....	....	1,500 0 0	....	1,500 0 0
Estimated increase to junior indoor and outdoor staff ..	25,000 0 0	....	....	....	....	....	25,000 0 0	....	25,000 0 0
Contribution towards the cost of the Cadastral Survey of the Town and Island of Bombay. ..	25,000 0 0	....	....	....	....	....	25,000 0 0	....	25,000 0 0
Payment of bonus equivalent to half a month's pay to certain employes of the Health Department for special work done in connection with the conservancy work of Military camps during the embarkation of the Indian Expeditionary forces ..	....	2,890 0 0	....	....	....	....	2,890 0 0	....	2,890 0 0
Contribution towards the expenses of publishing a book called "The Milk Problem in Indian cities"	....	1,000 0 0	....	....	....	....	1,000 0 0	....	1,000 0 0
Total Rs. ..	2,74,000 0 0	10,173 14 8	6,948 5 4	14,970 0 8	....	664 0 0	3,05,426 4 8	....	3,05,426 4 8
CONTRIBUTION TO THE CITY IMPROVEMENT TRUST UNDER SECTION 72 (1) OF THE ACT IV OF 1898	9,95,000 0 0	22,420 1 8	....	....	....	....	10,17,420 1 8	....	10,17,420 1 8
Total Rs. ..	9,95,000 0 0	22,420 1 8	....	....	....	....	10,17,420 1 8	....	10,17,420 1 8
MUNICIPAL DEBT—									
Interest on Loans	30,45,002 14 6	....	74,597 3 4	1,02,295 0 0	21 6 0	....	32,22,016 7 4	19,500 0 0	32,02,516 7 4
Charges on account of Loans ..	18,649 10 9	....	....	....	....	....	18,649 10 9	....	18,649 10 9
Payment towards the reduction of debt	1,54,718 2 0	....	12,000 0 0	14,000 0 0	....	21 6 0	1,80,696 12 0	....	1,80,696 12 0
Payment towards the Investment of Sinking Fund	8,12,523 8 4	....	....	....	....	....	8,12,523 8 4	....	8,12,523 8 4
Total Rs. ..	40,30,894 3 1	....	86,597 3 4	1,16,295 0 0	21 6 0	21 6 0	42,33,886 6 5	19,500 0 0	42,14,386 6 5
INVESTMENTS—									
Municipal Fire and Accident Insurance Fund	10,000 0 0	....	....	....	....	....	10,000 0 0	....	10,000 0 0
Total Rs. ..	10,000 0 0	....	....	....	....	....	10,000 0 0	....	10,000 0 0
GRAND TOTAL Rs. ..	1,28,89,948 0 0	2,49,607 4 0	6,54,215 0 6	4,11,094 9 8	2,11,590 2 0	2,11,590 2 0	1,42,04,864 14 2	85,600 0 0	1,41,19,264 14 2

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner

Appendix No. 5.

EXPENDITURE.

STATEMENT showing the Actuals as compared with the Final Sanctioned Grants for 1915-16 as per Appendix No. 4 and the Actuals for the preceding year.

PARTICULARS.	Actuals for 1914-15.	Final Sanctioned Grants for Expenditure during 1915-16 as per Appendix No. 4.	Actuals for 1915-16.	As compared with the Final Sanctioned Grants per column No. 3.		Amount proposed to be renewed in 1916-17 out of savings as per column No. 6.	Net Savings.	As compared with the Actuals for 1914-15 per column No. 2.	
				More.	Less.			More.	Less.
1	2	3	4	5	6	7	8	9	10
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
GENERAL SUPERINTENDENCE—									
Corporation and Standing Committee's Establishment	79,926 3 5	84,365 12 2	83,882 13 4	....	402 14 10	....	402 14 10	3,936 9 11	....
Municipal Commissioner's Personal Office Establishment	61,404 15 3	65,588 11 11	64,891 8 10	....	1,257 3 1	1,127 15 11	129 3 2	2,926 9 7	....
General Office Establishment ..	82,373 3 1	1,03,015 18 11	81,736 8 9	....	21,279 5 2	17,977 12 7	3,301 8 7	....	636 10 4
Accounts and Expenditure Audit Establishment	89,371 4 7	92,444 13 9	89,729 0 4	....	2,715 13 5	2,625 12 7	90 0 10	....	142 4 3
	3,13,575 10 4	3,45,315 3 9	3,19,659 15 3	....	25,655 4 6	21,731 9 1	3,923 11 5	6,863 3 6	778 14 7
ASSESSMENT AND COLLECTION DEPARTMENT—									
Property and Wheel Tax Establishment	2,21,678 11 5	2,26,498 3 6	2,18,057 9 0	....	8,440 10 6	5,295 6 9	3,145 3 9	....	3,621 2 5
Town Duty Collection	90,367 3 5	1,15,777 0 0	1,15,475 14 4	....	301 1 8	15 6 6	285 11 2	25,118 10 11	....
Tolls Collection	504 0 0	412 8 0	412 8 0	....	....	....	....	....	91 8 0
Licensing Establishment	28,372 5 2	29,819 10 10	28,270 12 0	....	1,548 14 10	420 0 0	1,128 14 0	....	102 9 2
Revenue and Refund Audit Establishment	75,984 14 8	89,475 6 5	89,421 11 4	....	53 11 1	41 0 0	12 11 1	13,436 12 8	....
	4,16,898 2 8	4,61,982 12 9	4,51,638 6 8	....	10,344 6 1	5,771 13 3	4,572 8 10	38,555 7 7	3,815 3 7
FIRE BRIGADE—									
Fire Brigade	1,33,404 1 4	2,22,130 7 6	1,88,634 5 5	....	33,496 2 1	14,298 12 11	18,097 5 2	5,230 4 1	....
New Works	2,173 5 7	5,661 5 11	3,820 13 7	....	1,840 8 4	1,000 8 0	840 0 4	1,647 8 0	....
	1,35,577 6 11	2,27,791 13 5	1,92,455 3 0	....	35,336 10 5	15,299 4 11	19,937 5 6	6,877 12 1	....
MAINTENANCE OF PUBLIC GARDENS—									
Victoria Gardens Maintenance ..	74,340 0 4	93,153 12 4	75,982 13 8	....	16,987 14 10	10,183 6 6	7,904 8 4	682 13 2	.....
Do. New Works ..	6,690 8 8	13,896 5 9	7,403 0 9	....	6,292 5 0	5,329 12 11	1,062 8 1	712 8 0	....
Elphinstone Circle Garden	1,262 10 6	1,650 7 3	1,265 11 3	....	384 11 11	70 0 0	314 11 11	3 0 9	....
Falkland Road Garden	281 10 10	294 0 0	159 1 9	....	134 14 3	15 0 0	119 14 3	....	122 9 1
Northbrook Garden	1,170 13 8	1,438 3 4	981 8 8	....	456 15 8	75 0 0	381 15 8	....	189 10 0
Sir C. Jehangir Garden at Mahim..	169 13 6	369 8 1	188 9 8	....	185 14 5	....	185 14 5	18 12 8	....
Bazar Gate Street Garden	218 6 7	244 0 0	24 14 6	....	219 1 6	....	219 1 6	....	199 8 1
Hicks Tank Garden	263 10 8	301 4 11	149 15 2	....	151 5 9	100 0 0	51 5 9	....	112 11 6
Malabar Hill Garden	796 11 3	650 0 0	114 0 2	....	535 15 10	....	535 15 10	....	682 11 1
Esplanade Band Stand Garden ..	5,050 6 10	3,974 12 6	2,931 8 10	....	1,043 3 8	5 0 0	1,038 3 8	....	2,118 14 0
Chowpati Band Stand	1,564 9 8	1,090 0 0	1,081 9 6	....	8 6 6	8 6 6	....	....	483 0 2
Flora and Wellington Fountains and the Queen's Statue	446 15 7	602 10 4	380 12 2	....	221 14 2	....	221 14 2	....	66 3 5
	92,295 6 1	1,17,861 0 5	89,738 4 11	....	27,622 11 6	15,696 9 11	11,926 1 7	1,412 2 2	3,992 3 4
PUBLIC WORKS (ENGINEER'S DEPARTMENT)—									
I. GENERAL SUPERVISION AND MISCELLANEOUS DUTIES ..	98,354 8 10	95,779 12 2	94,577 9 6	....	1,193 2 8	276 1 0	917 1 8	....	3,776 15 4
II. MECHANICAL BRANCH—									
Maintenance of Compressor Station, Colaba (Shone System)	33,426 1 2	36,708 0 0	36,277 9 11	....	430 6 1	75 0 0	355 6 1	....	3,148 7 3
Maintenance of Love Grove Pumping Station	1,60,599 1 9	1,63,635 13 8	1,62,533 7 7	....	1,102 6 1	500 0 0	602 6 1	1,934 5 4	....
Maintenance of Air Compressor Station at Love Grove (Shone System)	90,888 15 11	1,10,514 13 11	1,05,164 6 9	....	5,350 7 2	4,799 0 0	551 7 2	14,275 6 10	....
Maintenance of Storm Water Sluices and Working the Oil Engine and Pump at Worli Sluices	2,147 1 0	3,466 0 0	2,817 6 6	....	648 9 6	73 0 0	575 9 6	670 5 6	....
III. SANITARY-DISPOSAL OF TOWN SWEEPINGS	86,038 8 1	96,115 3 10	88,542 3 3	....	7,573 0 7	4,265 14 0	3,307 2 7	1,543 11 2	....
IV. DRAINAGE—									
A. Miscellaneous Drainage ..	2,37,908 9 0	2,92,229 15 7	2,73,007 8 0	....	19,222 9 7	10,105 0 0	9,117 9 7	35,099 6 6	....
B. Maintenance of Sluices ..	2,063 11 4	3,382 0 0	2,886 13 7	....	495 2 5	....	495 2 5	905 2 3	....
V. STREETS AND BUILDINGS—									
A. Inspection and Supervision...	1,98,504 10 2	2,10,726 0 0	1,99,759 14 10	....	10,966 1 2	8,863 1 2	2,103 0 0	255 4 8	....
B. Public Lighting	4,41,270 0 3	4,95,772 15 9	4,25,678 11 1	....	70,094 4 8	43,706 13 7	26,387 7 1	....	15,591 5 2
C. Road Watering	1,29,467 2 8	1,14,302 5 11	80,727 0 8	....	33,775 5 3	19,957 8 5	13,777 11 10	....	48,740 1 9
C-1. Oiling and Tarring Roads (Experimental)	87,306 4 11	1,04,807 1 5	1,02,936 9 0	....	1,870 8 5	....	1,870 8 5	15,630 4 1	....
D. Roads and Footpaths, &c.	6,41,828 6 11	8,04,075 1 1	6,87,776 12 4	....	1,16,298 4 9	1,10,244 10 0	6,021 10 9	45,948 5 5	....
E. Street Improvements ..	1,24,282 3 10	1,69,866 12 3	1,32,909 3 3	....	36,897 9 0	36,897 9 0	....	8,626 15 5	....
F. Miscellaneous (compensation to house-owners for insanitary Buildings demolished)...	42 0 3	1,015 0 0	54 1 4	....	960 14 8	....	960 14 8	62 1 1	....
VI. CLEANING, LIGHTING AND REPAIRING PORT TRUST WHARVES, DOCK ROADS, &c.	43,151 1 6	43,238 0 0	43,238 0 0	....	....	....	....	86 14 6	....
VII. WATER WORKS	4,17,470 15 3	4,64,895 5 0	3,52,684 15 3	....	1,12,210 5 9	26,935 13 9	86,274 8 0	....	65,186 0 6
	28,03,128 13 7	32,19,919 4 8	27,91,764 2 4	....	4,19,155 2 4	2,65,359 7 11	1,53,795 10 5	1,25,078 2 3	1,36,442 13 6
Carried over Rs. ..	38,11,475 7 7	43,83,370 3 0	38,45,256 0 2	....	5,18,114 2 10	3,24,159 13 1	1,93,955 5 9	1,78,786 11 7	1,45,006 3 0

Appendix No. 5—*continued.*

Particulars.	Actuals for 1914-15.	Final Sanctioned Grants for Expenditure during 1915-16 as per Appendix No. 4.	Actuals for 1915-16.	As compared with the Final Sanctioned Grants as per column No. 3.		Amount proposed to be renewed in 1916-17 out of savings as per column No. 6.	Net Savings.	As compared with the Actuals for 1914-15 as per column No. 2.	
				More.	Less.			More.	Less.
1	2	3	4	5	6	7	8	9	10
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought over ..	38,11,475 7 7	43,33,370 3 0	38,45,256 0 2	....	5,18,114 2 10	3,24,153 13 1	1,93,955 5 9	1,78,786 11 7	1,45,006 8 8
New Works	1,99,300 14 4	4,74,986 8 1	2,21,419 5 11	....	2,53,567 2 2	2,17,166 3 4	36,400 14 10	22,118 7 7	....
	1,99,300 14 4	4,74,986 8 1	2,21,419 5 11	....	2,53,567 2 2	2,17,166 3 4	36,400 14 10	22,118 7 7	....
Public Health Department—									
General Supervision	1,38,710 10 4	1,37,853 3 2	1,37,266 9 9	....	586 14 5	453 0 0	133 14 5	....	1,444 0 7
Conservancy Branch	16,92,377 7 3	18,87,077 11 5	17,70,330 2 4	....	1,16,747 9 1	58,356 0 0	58,391 9 1	77,952 11 2	....
Markets and Slaughter Houses ..	1,92,061 10 5	2,42,695 14 2	1,91,471 1 1	....	51,224 13 1	46,238 0 0	4,821 12 1	....	590 9 4
Registration of Births and Deaths	86,017 5 1	93,857 0 0	93,695 8 10	....	161 12 2	155 0 0	6 12 2	7,677 14 9	....
Cemeteries	11,627 4 4	11,401 0 0	10,812 2 2	....	588 12 10	582 13 9	5 15 1	....	815 2 2
Dispensaries	18,279 12 0	18,661 0 0	16,118 2 2	....	2,543 13 10	2,200 0 0	343 13 10	838 6 2	....
Mahalaxmi Dhobiwada	17,628 0 0	19,765 6 11	18,487 10 6	....	1,278 12 5	598 0 0	679 12 5	859 10 6	....
Milch Cattle Stables and Rooms ..	5,285 13 0	7,580 14 6	6,977 3 8	....	603 10 10	401 0 0	202 10 10	288 8 6	....
Laboratory	14,016 8 6	16,472 4 6	12,852 9 8	....	4,119 10 10	4,114 7 3	5 3 7	....	1,663 15 10
Rustomjee Jamshedjee Dharamshalla	519 14 10	864 6 9	589 11 11	....	274 10 10	....	274 10 10	69 13 1	....
Infectious Diseases	61,233 8 7	60,307 0 7	58,158 8 7	....	2,148 8 0	1,543 7 0	605 1 0	....	3 074 11 0
Vaccination	30,087 3 9	32,674 12 6	31,818 10 6	....	1,056 1 6	532 0 0	524 1 6	1,581 6 9	....
Malaria	49,716 1 1	47,718 0 0	44,957 2 4	....	2,760 13 8	2,751 0 0	9 13 8	....	4,758 14 9
Plague	1,27,633 5 7	1,27,060 0 0	1,12,911 8 2	....	4,148 8 10	3,650 0 0	498 8 10	....	4,721 12 5
Lethal Chamber for dogs	....	849 0 0	575 15 1	....	273 0 11	150 0 0	123 0 11	275 15 1	....
	24,42,897 4 8	27,04,869 15 0	25,16,322 6 9	....	1,88,347 8 3	1,21,720 11 0	66,626 13 3	90,494 4 2	17,069 2 1
General Stores Establishment—									
General Stores Establishment ..	36,770 7 0	41,413 9 6	38,276 13 0	....	3,136 12 6	2,942 0 0	194 12 6	1,506 6 0	....
	36,770 7 0	41,413 9 6	38,276 13 0	....	3,136 12 6	2,942 0 0	194 12 6	1,506 6 0	....
Primary Education—									
Primary Education	4,17,864 0 0	4,62,000 0 0	4,62,000 0 0	....	....	....	....	44,136 0 0	....
	4,17,864 0 0	4,62,000 0 0	4,62,000 0 0	....	....	....	....	44,136 0 0	....
Education—									
School for Deaf and Dumb Mutes ..	3,000 0 0	3,000 0 0	3,000 0 0	....	....	....	....	....	....
Veterinary College	2,500 0 0	2,500 0 0	2,500 0 0	....	....	....	....	....	....
Victoria and Albert Museum ..	17,303 14 10	22,028 13 10	16,288 3 2	....	5,735 10 8	5,161 15 0	573 11 8	....	1,515 11 8
Victoria Jubilee Technical Institute	20,000 0 0	20,000 0 0	20,000 0 0	....	....	....	....	....	....
Prince of Wales Museum	25,000 0 0	25,000 0 0	25,000 0 0	....	....	....	....	....	....
Schools Committee's Establishment	14,656 7 3	12,758 0 0	12,057 11 3	....	700 4 4	....	700 4 4	....	24 98 11 7
Victoria Memorial School for the Blind.	2,500 0 0	2,500 0 0	2,500 0 0	....	....	....	....	....	....
	85,960 6 1	87,781 13 10	81,345 14 10	....	6,435 14 0	5,161 15 0	1,274 [illegible] 0	....	4,014 7 9
Hospitals—									
Medical Institutions	4,14,500 0 0	4,14,500 0 0	4,14,500 0 0	....	....	....	....	....	....
Lepers' Asylum at Matunga ..	19,260 0 0	17,810 0 0	17,810 0 0	....	....	....	....	....	1,450 0 0
Adams-Wylie Hospital	4,000 0 0	4,000 0 0	4,000 0 0	....	....	....	....	....	....
Bombay Sanitary Association ..	1,500 0 0	1,500 0 0	1,500 0 0	....	....	....	....	....	....
	4,39,260 0 0	4,37,810 0 0	4,37,810 0 0	....	....	....	....	....	1,450 0 0
Miscellaneous—									
Pensions, Gratuities and Compassionate Allowances	1,11,204 5 7	1,46,850 4 8	1,16,167 5 9	....	31,682 14 11	24,315 0 0	7,367 14 11	3,963 0 2	....
Discretional Contingencies ..	5,322 5 11	8,636 0 0	2,856 13 5	....	6,379 2 7	2,810 0 0	3,569 2 7	....	2,375 8 6
Auditors' Allowance	10,000 0 0	10,000 0 0	10,000 0 0	....	....	....	....	....	....
Local Allowance	78,441 7 10	75,150 0 0	70,989 1 7	....	4,160 14 5	300 0 0	3,860 14 5	....	2,452 6 5
Contribution towards the expenses of the King George V Antituberculosis League	10,000 0 0	10,000 0 0	10,000 0 0	....	....	....	....	....	....
Cost of the Casket presented to His Excellency the Viceroy on his visit to Bombay and other expenses in connection therewith	1,261 1 3	....	....	....	....	....	....	....	1,261 1 3
Carried over ..	2,11,189 4 7	2,50,636 4 8	2,08,813 4 9	....	41,222 15 11	27,425 0 0	13,797 15 11	3,963 0 2	6,289 0 0
Total Carried over ..	74,82,938 7 8	85,73,082 1 5	76,02,490 8 8	....	9,69,601 8 9	6,71,149 10 5	2,98,451 14 4	3,87,041 13 4	1,67 539 12 4

Appendix No. 5—*concluded.*

Particulars.	Actuals for 1914-15.	Final Sanctioned Grants for Expenditure during 1915-16 as per Appendix No. 4.	Actuals for 1915-16.	As compared with the Final Sanctioned Grants as per column No. 3.		Amount proposed to be renewed in 1916-17 out of savings as per column No. 6.	Net Savings.	As compared with the Actuals for 1914-15 as per column No. 2.	
				More.	Less.			More.	Less.
1	2	3	4	5	6	7	8	9	10
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs...	74,32,993 7 8	85,73,032 1 5	76,02,490 8 8	. ..	9,69,601 8 9	6,71,149 10 5	2,98,451 14 4	3,37,041 13 4	1,67,539 12 4
Brought over ..	2,11,189 4 7	2,50,036 4 8	2,08,813 4 9	.....	41,222 15 11	27,425 0 0	13,797 15 11	3,963 0 2	6,289 0 0
Miscellaneous :—*contd.*									
Contribution to the Bombay Sanitary Association for the construction of a Sanitary Institution in Bombay	15,000 0 0	....	....	....	....	....	....	....	15,000 0 0
Contribution towards the expenses of the Lady Hardinge Hospital..	30,000 0 0	....	....	...	....	....	.....	....	30,000 0 0
Writing off irrecoverable charges in respect of house drain cleaning works for 1911-12 and previous years	9,034 5 6	...	....	....	....	...	....	....	9,034 5 6
Compensation payable to Government for the structure standing on a plot of Government land near the Musjid Bunder Station which has been leased from them for the construction of a vegetable market	3,400 0 0	....	....	....	....	....	....	....	3,400 0 0
Portion of the difference between the book value and sale proceeds of unserviceable articles of stores Department written off.	2,500 0 0	....	....	....	....	....	....	....	2,500 0 0
Payment of a moiety (not exceeding Rs. 1,500) of the remuneration to be paid to Mr. W. A. Chambers for fixing the rateable value of buildings and lands in the City of Bombay vesting in His Majesty and beneficially occupied	....	1,500 0 0	1,500 0 0	....	....	....	....	1,500 0 0	....
Payment of a bonus equivalent to half a month's pay to certain employes of the Health Department for special work done in connection with conservancy work of Military Camps during the embarkation of the Indian Expeditionary Force ..	....	2,880 0 0	2,884 8 0	...	5 8 0	....	5 8 0	2,884 8 0	....
Contribution towards the expenses of publishing a book called "The Milk Problem in Indian Cities" by Dr. L. L. Joshi, Municipal Analyst	....	1,000 0 0	1,000 0 0	....	....	....	....	1,000 0 0	....
Estimated increase to junior indoor and outdoor staff	....	25,000 0 0	.....	....	25,000 0 0	25,000 0 0	....	....	....
	2,71,073 10 1	2,86,196 4 8	2,14,197 12 9	....	66,223 7 11	52,425 0 0	13,803 7 11	9,347 8 2	66,223 5 6
Contribution to the City Improvement Trust under Section 73 (1) of the Act IV of 1898.	9,76,937 13 10	10,17,420 1 8	10,17,420 1 8	....	....	....	....	40,482 3 10	....
Contribution towards the cost of Cadastral Survey of the Town and Island of Bombay.. ..	....	25,000 0 0	25,000 0 0	....	....	....	....	25,000 0 0	....
Municipal Debt—									
Interest on Loans	28,76,238 2 9	32,02,515 7 4	29,62,243 11 11	. ..	2,40,272 11 6	2,40,186 14 6	85 12 11	85,305 9 2	....
Charges on Loans	13,592 15 9	18,549 10 9	14,357 6 2	....	4,192 4 7	....	4,292 4 7	764 6 5	....
Payment towards the reduction of debt	1,37,205 13 0	1,80,696 12 0	1,45,696 12 0	....	35,000 0 0	35,000 0 0	....	8,490 15 0	....
Payment towards the investment of Sinking Fund	7,34,514 6 3	8,12,523 8 4	8,12,523 8 4	....	....	....	....	78,009 2 1	....
	37,62,551 5 9	42,14,286 6 5	39,34,821 6 6	....	2,79,585 0 0	2,75,186 14 6	4,378 1 6	1,72,570 0 8	....
Investments—									
Municipal Fire and Accident Insurance Fund	10,000 0 0	10,000 0 0	10,000 0 0	....	....	....	....	....	....
Total Expenditure Rs. ..	1,24,59,191 5 4	1,41,19,204 14 2	1,28,03,869 13 6	....	13,15,395 0 8	9,38,761 8 11	3,16,633 7 9	5,84,441 10 0	2,33,763 1 10
Write off of the proportionate cost (paid out of Loan Funds) of the Halaikhores' chawl at Vincent Road sold to the City Improvement Trust	35,455 0 0	....	....	....	....	....	....	....	35,455 0 0
Grand Total Rs. ..	1,24,58,646 5 4	1,41,19,264 14 2	1,28,03,869 13 6	....	13,15,395 0 8	9,38,761 8 11	3,16,633 7 9	5,84,441 10 0	2,69,218 1 10

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner.

Appendix No. 5-A.

STATEMENT showing (1) the Grants sanctioned for New Works, (2) the Expenditure incurred on them, and (3) the Balances of the grants remaining unexpended.

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended balances of the grants to be renewed.	
		For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915 16.	For years previous to 1915-16.	For 1915-16.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	General Office Establishment.						
1	Alterations and additions on the 4th floor of the Municipal Office Building	509 7 8	.....	396 10 6	.....	.....	.....
	Assessment and Collection Department.						
2	Providing steel racks in the Assessment Department ...	1,175 0 0	.....	1,175 0 0	.....	.....	.....
3	Construction of a wooden Chowki at Malet Bunder for the use of the Municipal Inspector	.....	1,680 0 0	.....	.....	.....	1,680 0 0
	Licensing Establishment.						
4	Construction of a ward office for B Ward Inspector	2,489 0 0	.....	.....	.....	.....	.....
	Fire Brigade.						
5	Paving the horses stables and the Lascars quarters at the Byculla Fire Brigade Station.	.....	2,912 0 0	.....	2,606 1 0	.....	.....
6	Construction of a temporary boiler house at the Byculla Fire Brigade Station	1,500 0 0	.....	1,214 12 7	.....	.....	.....
7	Removing and refixing travelling crane for lifting boilers of the Fire Brigade engines...	.....	594 8 0	.....	.....	.....	594 8 0
8	Providing accommodation for stores and office for the Head Foreman at Byculla Station...	.....	406 0 0	.....	.....	.....	406 0 0
9	Constructing a drill tower at Haines Road Fire Brigade Station and other works in connection therewith ..	203 11 1	.....	.....	.....	.....	.....
10	Constructing an additional water-closet in the compound of the Babula Tank Fire Brigade Station	45 2 10	.....	.....	.....	.....	.....
	Carried over Rs. ...	5,922 5 7	5,592 8 0	2,786 7 1	2,606 1 0	.....	2,680 8 0

Appendix No. 5-A—*continued.*

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward ...	5,922 5 7	5,592 8 0	2,786 7 1	2,606 1 0	.....	2,680 8 0
	Mechanical Branch Love Grove Pumping Station.						
11	Construction of 30 semi-permanent huts for the accommodation of the staff employed at the Love Grove Pumping Station	9,000 0 0	550 0 0	8,769 12 11	.....	230 0 0	550 0 0
12	Installing a 9" centrifugal pump at the storm-water outlet at Worli with an oil engine for working the pump.	1,139 4 8	.....	1,018 0 1	.....	.....	.....
12A	Construction of a motor garage at Ormistone Road	2,869 2 0	.....	2,071 0 9	.....	.....	.....
13	Providing a five-seated latrine at workmen's chawl at Love Grove Pumping Station ...	2,105 0 0	.....	.....	.....	2,105 0 0	.....
	Drainage.						
14	Relieving arches at Falkland Road	1,945 2 0	5,000 0 0	1,945 2 0	4,432 5 7	.....	567 0 0
15	Permanent manholes over storm-water drains	.....	3,000 0 0	.....	2,785 13 10	.....	.....
16	Petty Drainage: Miscellaneous Drainage Works	2,884 10 4	22,842 0 0	.....	20,978 13 11	2,401 0 0	1,864 0 0
17	Laying a 9" sewer and raising a 6" drain to the Low-level Channel at DeLisle Road near Parbhadevi Road ...	1,699 0 6	2,264 0 0	1,699 0 6	800 12 2	.....	1,463 0 0
18	Substituting ejectors of 700 gallons capacity in place of the existing ones in Mazagaon No. 2 District	5,748 0 11	6,833 0 0	5,748 0 11	5,296 12 10	.....	1,536 0 0
19	Extending brick masonry Chowki at Belasis Bridge Pipe Depot	643 0 0	.....	.....	.....	643 0 0	.....
20.	Shifting the existing water entrances at Parbhadevi Road for Street Improvements ...	883 0 3	.....	.....	.....	883 0 0	.....
21	Providing a masonry road side drain at Walkeshwar Road and replacing the existing 6" stoneware pipe drain by a 12" one in the Government House compound from the upper gate to the sea in Walkeshwar Road	6,113 0 0	.....	6,043 1 3	.....	.....	.....
	Carried over Rs. ...	40,351 9 10	46,081 8 0	36,080 9 6	36,900 11 4	6,212 0 0	8,660 8 0

Appendix No. 5-A—*continued.*

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward ...	40,851 9 10	46,081 8 0	30,080 9 6	36,900 11 4	6,212 0 0	8,660 8 0
	Drainage—*contd.*						
22	Constructing a covered storm-water drain near premises No. 471-489 on the east side of Girgaum Road and providing a storm-water concrete covered side drain in Kandewadi Lane between Girgaum Road and Sadashiv Street and between Sadashiv Street and Khattar Ali Lane... ...	.....	22,989 0 0	.....	10,308 10 8	.....	12,680 0 0
23	Laying a 9" sewer in the Esplanade Maidan	.....	14,430 0 0	.....	3,966 0 3	.....	10,463 0 0
24	Laying a 9" pipe sewer in Worli Road	.....	4,853 0 0	.....	193 12 0	.....	4,659 0 0
25	Rebuilding a portion of the wall on the south-east of the Low-level Channel running along Haines Road near Mahalaxmi Race Course ...	.....	3,891 0 0	.....	3,375 10 0	.....	.....
	Sanitary Disposal of Town Sweepings.						
26	Providing 1000 teak-wood sleepers for shift siding at Kurla Deonar	.....	6,200 0 0	.....	6,191 9 0	.....	.....
	Streets and Buildings.						
27	Filling in the low-lying ground opposite the Arthur Road Hospital...	7,722 2 10	.....	6,096 2 9	.....	.....	.....
28	Providing drainage for the proposed washing place for the biggaries' shed north of Sankli Street and constructing a two-seated latrine on the water carriage system at the Sankli Street Ward Office ...	378 4 5	.....	40 1 0	.....	.....	.....
29	Development of the land acquired at Golanji Hill Road for a ...one depôt and for the erection of stone breaking and screening machinery	9,254 4 5	.....	2,932 9 1	.....	6,321 11 4	.....
30	Providing a steel framed corrugated iron shed for the stone crushing machinery on the Municipal land of Sewri.	.....	7,827 0 0	.....	327 0 0	.....	7,000 0 0
	Carried over Rs. ...	58,206 5 6	1,05,771 8 0	39,149 6 4	61,263 5 5	12,533 11 4	43,462 8 0

Appendix No. 5-A—*continued.*

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.
		Rs a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs. ...	58,206 5 6	1,05,771 8 0	39,149 6 4	61,263 5 3	12,533 11 4	43,462 8 0
	Streets and Buildings —*contd.*						
31	Reconstructing as an experimental measure with a concrete bottoming covered with bituminous maccadam the portion of Frere Road in front of the main gates of the Prince's Docks from Kalyan Street to Masjid Siding ...	19,845 3 0	.....	7,847 1 7	.....	11,998 1 5	.....
32	Purchase and fixing of 70 street name boards	151 3 10	.....	.....	.....	.....	.....
33	Reducing the level of the road at the junction of Mount Road and Victoria Road and other auxiliary works	15,158 11 3	.....	92 7 11	.....	1,000 0 0	.....
34	Improvement of Bhatia Baug ...	3,715 4 2	2,000 0 0	2,343 6 9	.....	1,371 13 5	2,000 0 0
35	Removing the earth from the excavations for the new Tansa Pipe in Soparibaug Road to Arthur Road for filling in the low-lying Municipal ground on the Road	.....	2,626 0 0	.....	2,624 0 5	.....	.....
36	Improving the gradients at Worli Road	23,775 7 1	.....	.....	.....	12,430 0 0	.....
37	Improving the gradients of Forjett Street	4,117 0 10	.....	3,802 11 10	.....	.....	.....
38	Paving a portion of Frere Road with wood blocks as an experimental measure	.....	6,656 0 0	.....	6,047 6 8	.....	415 9 0
39	Shifting 51 tramway poles on certain Roads	.....	2,318 0 0	.....	2,217 9 0	.....	.....
40	Providing 20 Head Load Rests on roads in the Northern part of the City	.....	600 0 0	.....	.....	.....	600 0 0
41	Erection of a shed for the stone crushing machinery at Nowroji Hill Road...	.....	364 0 0	.....	.....	.....	364 0 0
	Water Works.						
42	Paving and draining cattle troughs in various parts of the city	719 5 1	.....	300 8 8	.....	.....	.....
	Carried over Rs.	1,25,688 8 9	1,20,235 8 0	53,535 11 1	72,152 5 4	39,333 10 2	46,842 1 0

Appendix No. 5-A—*continued.*

No.	NAME of WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs.	1,25,688 8 9	1,20,235 8 0	53,595 11 1	72,152 5 4	39,833 10 2	46,842 1 0
	Water Works—*contd.*						
43	Rendering filters at Malabar Hill Reservoir mosquito proof	8,031 8 4	.....	2,991 9 5	.....	5,039 14 11	.....
44	Constructing gauge-wires for measuring leakage at Tansa, Vehar and Tulsi Lakes ...	1,578 0 0	.....	.....	.....	1,578 0 0	.....
45	Alterations to the outlets from filters Nos. 1 to 6 at Bhandarwada Reservoir	13,125 0 0	.....	6,248 3 5	.....	6,876 12 7	.....
46	Providing a mosquito proof gauge-wire to the ventilators and other openings in the roof of the Malabar Hill Reservoir	867 1 5	.....	543 12 10	.....	323 4 7	.....
47	Laying water mains in Chowpati Estates	1,100 14 1	.....	.....	.....	1,000 14 1	.....
48	Laying a 6" main in Forjett Street and Forjett Street Cross Lane	1,789 13 1	.....	333 1 11	.....	1,056 11 2	.....
49	Completing water-proofing works at Malabar Hill Reservoir ...	4,776 12 3	.....	1,162 5 0	.....	3,614 7 3	.....
50	Replacing 3" main in Arthur Road by a 6" one and to extend it so as to join the 6" main in Kala Chowki Road ...	521 15 6	.....	271 6 3	.....	2 0 0	.....
51	Providing a wire fence at Vehar Lake	754 13 9	.....	.....	.....	.....	.....
52	Removing Vehar village ...	2,000 0 0	.....	.....	.....	2,000 0 0	.....
53	Purchase of meter testing appliances and erecting a meter testing shed at Chinchpokli...	2,340 0 0	.....	872 10 2	.....	1,467 5 10	.....
54	Rendering Reservoirs and Filters at Malabar Hill watertight	632 2 10	6,000 0 0	622 2 10	4,496 9 8	.....	1,503 6 4
55	Extending a 6" main in Sewri Road to 4" main in Parel Road *via* Golanji Hill Road...	98 11 10	.....	.....	.....	.....	.....
56	Laying a 6" pipe at Matharpakhady Road	3,231 0 0	.....	2,233 2 6	.....	.....	.....
	Carried over Rs. ...	1,66,526 5 10	1,26,235 8 0	68,814 1 5	76,648 15 0	62,293 0 7	48,345 7 4

Appendix No. 5-A—*continued.*

No.	NAME of WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs.	1,66,526 5 10	1,26,235 8 0	68,814 1 5	76,648 15 0	62,293 0 7	48,945 7 4
	Water Works—*concld.*						
57	Laying a 5" main in Champawady Cross Lane	1,835 0 0	.....	1,091 1 6	.....	500 0 0	.....
58	Laying a 5" water main in the portion of Foras Road lying between Lamington Road and the Grant Road Station ...	4,383 0 0	.....	3,056 14 4	.....	1,000 0 0	.....
59	Diversion of the 18" main in the Elphinstone Bridge	706 12 0	.....	.....	.....	706 12 0	.....
60	Extension of the sub-way Carrying water mains under the G. I. P. Railway lines at the Arthur Road Level crossing near Chinchpokli	.....	6,152 5 0	.....	6,152 0 0	.....	.....
61	Construction of a new Chawl at Kurla for labourers	.....	5,000 0 0	.....	76 8 7	.....	4,923 7 5
	Sanitary (Health Department).						
62	Improving the water supply at the Bomuoli Night Soil Depôt.	.....	1,360 0 0	.....	7 8 0	.....	1,352 0 0
63	Improving the water supply at the latrine and urinal situated at Parel Tank Road ...	.....	612 0 0	.....	.....	.....	612 0 0
64	Construction of a lethal chamber at Tardeo Flats	19,047 0 6	.....	17,647 4 5	.....	1,399 0 0	.....
65	Providing a compound wall at Worli Cemetery	5,800 8 6	1,256 0 0	5,142 0 6	.....	658 0 0	1,256 0 0
66	Covering the refuse deposited in the storm water Reservoir at Clerk Road	.....	1,999 15 9	.....	1,999 15 9	.....	.....
67	Converting the existing privy at premises No. 598, Dongri Street into a water-closet	146 11 7	.....	146 11 7	.....	.....	.....
68	Construction of a septic tank with a hopper at Dharavi...	7,414 0 0	.....	5,895 3 6	.....	1,518 0 0	.....
69	Rebuilding of the wards at the Maratha Hospital	6,539 3 7	.....	1,644 15 8	.....	4,894 0 0	.....
	Carried over Rs. ...	2,12,308 10 0	1,42,615 12 9	1,03,438 4 11	84,884 15 4	72,968 12 7	56,483 14 9

Appendix No. 5-A—*continued.*

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs. ...	2,12,808 10 0	1,42,615 12 9	1,03,438 4 11	84,884 15 4	72,968 12 7	56,488 14 9
	Sanitary (Health Department)—*concld.*						
70	Constructing a new Hospital for cattle at Tardeo Flats ...	14,106 11 11	.....	6,211 8 1	.....	7,895 0 0	.....
71	Extension of Dhobiwada at Mahaluxmi by 50 stones ...	2,593 6 6	.....	1,456 7 5	.....	1,136 0 0	.....
72	Acquisition of land for the construction of a bathing place and a disinfecting station at Reay Road	7,500 0 0	.....	7,500 0 0	.....	.....	.....
73	Improving the drainage arrangements at Halalcore chawls at Suklaji Street	.....	2,833 0 0	.....	2,423 9 5	.....	409 0 0
74	Construction of latrines and urinals	12,010 13 5	.....	2,762 3 4	.....	9,248 0 0	.....
75	Providing gas lights at the Sankli Tank bullock Hospital.	.....	702 6 6	.....	702 6 6	.....	.....
76	Constructing a temporary shed in the compound of the Municipal stable at Suklaji Street.	.....	2,906 0 0	.....	2,905 13 6	.....	.....
77	Paving and enclosing dust-bin stands	1,496 11 0	.....	201 6 4	.....	1,295 0 0	.....
78	Building a wall for protecting the Mahim Burning and Burial Ground from the inroads of the sea	18,808 13 4	.....	.....	.....	18,808 0 0	.....
79	Removing the Health Camps from the Northbrook Garden.	.....	21,115 0 0	.....	.....	.....	21,115 0 0
80	Consolidating with tar metalling the floor of Health Department stable at Arthur Road ...	.....	4,461 0 0	.....	1,519 12 2	.....	2,941 0 0
81	Additions and alterations in the small-pox ward at Arthur Road Hospital	.....	4,793 0 0	.....	93 1 4	.....	4,699 0 0
82	Covering the refuse deposited at the Mahalaxmi Reclamation with earth	.....	2,100 0 0	.....	2,099 9 8	.....	.....
83	Constructing a temporary ward at the Arthur Road Hospital...	.....	1,474 0 0	.....	.....	.....	1,474 0 0
	Carried over Rs.	2,68,915 2 2	1,83,000 3 3	1,21,569 14 1	94,629 3 11	1,11,350 12 7	87,126 14 9

Appendix No. 5-A—*concluded.*

No.	NAME OF WORK.	Sanctioned Grants.		Expenditure.		Unexpended Balances of the Grants to be renewed.	
		For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.	For years previous to 1915-16.	For 1915-16.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Brought forward Rs. ...	2,68,915 2 2	1,83,000 3 3	1,21,569 14 1	94,629 3 11	1,11,350 12 7	87,126 14 9
	Markets.						
84	Construction of a slaughter house at Arthur Road for killing pigs	3,045 15 6	338 0 0	1,164 11 11	.....	1,881 0 0	338 0 0
85	Providing new pattern hydrants in Municipal Markets... ...	2,870 14 0	.....	1,515 14 6	.....	1,354 0 0	.....
86	Paving the compound of the Arthur Crawford Market with tar concrete	6,930 0 0	.....	6,245 2 8	.....	684 0 0	.....
87	Re-building the sheep pens at Bandra Slaughter-Houses ...	8,793 0 0	1,384 0 0	114 15 5	.....	8,678 0 0	1,384 0 0
88	Renewing the pavement of the Erskine Road Market... ...	185 0 0	.....	.....	.....	185 0 0	.....
89	Improving the Drainage arrangement of the Fort Market	1,069 8 3	.....	.....	.....	1,069 0 0	.....
90	Providing a temporary Railing and a scale shed at Arthur Crawford Market	.....	4,116 0 0	.....	.....	.....	4,116 0 0
90A	Providing Drainage arrangements in the Erskine Road Market	0 2 10	.....	.....	.....	.....	.....
		2,91,809 10 9	1,88,838 3 3	1,30,610 10 7	94,629 3 11	1,25,201 12 7	92,964 14 9
		4,80,647 14 0		2,25,240 3 6		2,18,166 11 4	
	Gardens.						
91	Construction of a storm water drain in the Victoria Gardens.	1,122 3 3	.....	363 1 6	.....	.....	.....
92	Renovating all the old ferneries and conservatories in the Victoria Gardens	4,102 8 9	697 0 0	2,536 2 5	.....	1,273 0 0	697 0 0
93	Improvement in the Zoological portion of the Victoria Gardens	2,882 0 0	1,253 0 0	2,882 0 0	674 0 1	.....	578 15 11
94	Renovating the roof of the Infirmary at the Victoria Gardens	1,089 9 9	.....	947 12 9	.....	141 13 0	.....
95	Construction of the Overseer's quarters in the Victoria Gardens...	.....	2,549 0 0	.....	.....	.....	2,549 0 0
		9,196 5 9	4,499 0 0	6,279 0 8	674 0 1	1,414 13 0	3,824 15 11
		13,695 5 9		7,403 0 9		5,239 12 11	
	Grand Total Rs. ...	4,94,343 3 9		2,32,643 4 3		2,23,406 8 3	

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner.

Appendix

SURPLUS

DR. STATEMENT showing the state of the Surplus Cash

To		Rs. a. p.	Rs. a. p.
Sums Payable—			
Deposits, &c., in cash		6,18,604 13 1	
Do. on account of Contractors' Government Paper (kept in office) ...		40,400 0 0	
Government of Bombay on account of Income Tax		1,193 15 1	
Cheques payable		94,269 4 1	
Loan Works Establishment		17,869 15 8	
			7,72,337 15 11
Amount to be renewed in 1916-1917 for unpaid charges for and prior to 1915-1916		.....	9,98,761 8 11
Reserve Stock Purchases		34,471 14 2	
Stock adjustment account		2,011 4 1	
			36,483 2 3
			18,07,582 11 1
Balance at the close of the year 1915-1916—			
Amount reserved for payment to the C. I. Trust on account of contribution from revenues earmarked for the purpose during the year	Rs. a. p. 11,01,288 9 0		
Reserve Stock *per contra*	3,54,171 5 6		
		14,55,459 14 6	
Minimum Cash Balance required by the Act	1,00,000 0 0		
SURPLUS CASH BALANCE	42,05,117 10 3		
		43,05,117 10 3	
			57,60,577 8 9
		Total Rs. ...	75,68,160 3 10

W. E. WAITE,
Chief Accountant.

No. 6.

CASH BALANCE.

Balance at the close of the year 1915-1916. CR.

By	Rs. a. p.	Rs. a p.
Cash Deposits and Investments—		
Cash balance in the Office and Bank Treasuries	3,25,997 15 11	
Surplus Funds Investments	62,75,616 10 0	
		66,01,614 9 11
Advances—		
To LOAN WORKS—		
Expenditure on Loan Works as per Appendix No. 6A including Plague expenses up to 1903-1904	6,80,06,271 0 11	
Less—		
Amount drawn from Loan Funds as per Appendix No. 6A	6,80,06,271 0 11	.....
To Municipal Officers, &c....	39,032 15 4	
Miscellaneous Advances	2,20,192 1 4	
To Private and Departmental Works including Workshops	35,841 13 11	
To printing and stamping, Building and Repair certificates forms ...	106 8 3	
To Contractors	118 9 11	
New Works to be subsequently provided for under a new loan to be raised as per Appendix No. 6C	2,29,115 1 0	
To Chief Auditor and Accountant, B. B. & C. I. Railway	8,304 0 0	
		5,82,711 1 9
Reserve Stock—		
SERVICEABLE STORES— Rs. a. p.		
Stock 2,54,806 1 11		
Water Works Imprest 3,572 9 0		
	2,58,378 10 11	
Executive Engineer (General)	597 12 9	
Line Suspense Account	90,613 6 2	
	3,49,589 13 10	
Surplus and Obsolete stores	4,581 7 8	
		3,54,171 5 6
Sales (Stores)		29,663 2 8
	Total Rs. ...	75,68,160 3 10

S. M. EDWARDES,
Municipal Commissioner.

Appendix No. 6-A.

STATEMENT showing (1) the Amount of Loans raised, (2) the Expenditure on Loan Works, and (3) the Invested Balance on 31st March 1916.

	Amount of Loan raised.	Amount expended.
	Rs.	Rs. a. p.
DRAINAGE AND WATER WORKS (Rs. 26,94,000) LOAN OF 1878—		
Drainage, 1st Section	26,94,000	16,52,449 12 9 (a)
Water Works (Bhandarwada)		10,16,830 13 3
	26,94,000	26,69,280 10 0
SURFACE DRAINAGE WORKS	6,00,000	6,00,000 0 0
SANITARY WORKS (44 LAKHS) LOAN—		
Surface Drainage Works (Rs. 13,22,134-3-3—Rs. 6,00,000)		7,22,134 3 3
Drainage (1883-84)		10,74,951 2 0 (b)
Do. (1884)		4,01,080 11 5
Ripon Road	44,00,000	1,41,500 1 2
Other Sanitary Works		87,110 9 6
Water Works		18,95,947 12 0
	44,00,000	43,22,724 7 4
SANITARY WORKS (7 LAKHS) LOAN—		
Fort Drainage, &c.	7,00,000	4,62,337 0 0
Water Works		1,42,241 5 4
	7,00,000	6,04,578 5 4
DRAINAGE AND WATER WORKS (12 LAKHS) LOAN—		
Queen's Road Sewerage, &c.	12,00,000	9,01,437 5 2
Water Works (Frere Road, Main)		80,031 5 0
	12,00,000	9,81,468 8 2
MISCELLANEOUS WORKS (10,08,500) LOAN—		
Drainage Works		58,396 14 10
Cross Road at Mahaluxmi Station		19,594 4 8
Nowrojee Hill Road	10,08,500	70,089 2 0
Markets (Erskine Road, &c.)		4,86,906 2 8
Water Works		1,16,214 8 2
	10,08,500	7,51,200 11 4
HOUSE SULLAGE WATER CONNECTIONS, AGRIPADA (Rs. 2,48,000) LOAN	2,48,000	2,33,533 12 10
VARIOUS SANITARY WORKS (35 LAKHS) LOAN—		
Drainage		13,864 7 3
New Roads at Agripada and elsewhere		14,91,224 2 9
Bhuleshwar Market Extension and Foras Road Market, &c.	35,00,000	3,72,835 15 1
Other Works		4,11,271 5 9
Water Works		8,27,079 9 10
	35,00,000	31,16,275 8 8
TANSA WATER WORKS (147 LAKHS) LOAN	1,47,00,000	1,46,96,383 7 0 (c)
MUNICIPAL BUILDING (INCLUDING FURNITURE, &c.) (8 LAKHS) LOAN.	8,00,000	7,33,060 3 0 (d)
FIRE BRIGADE QUARTERS, &C. (4½ LAKHS) LOAN	4,50,000	4,03,320 6 1
28½ LAKHS DRAINAGE, WATER WORKS, ROADS AND OTHER WORKS LOAN—		
Drainage		17,44,602 15 5
Falkland Road Overbridge		15,082 9 4
Wari Bunder Bridge	23,25,000	1,32,552 0 0
Other Works		5,890 14 1
Water Works		1,49,522 5 7
	23,25,000	20,47,750 12 5
15¾ LAKHS SEWERAGE, WARI BUNDER, &C., ROADS, BURIAL GROUND AND CERTAIN WATER WORKS LOAN—		
Drainage		5,69,077 1 0
Wari Bunder and Victoria Roads, *less* Rs. 1,56,500 contributed by the Port Trust for Wari Bunder Road	15,75,000	3,48,712 14 10
Burial Ground		2,11,652 4 5
Water Works		12,842 13 10
	15,75,000	11,42,285 2 1
Carried over Rs.	3,42,00,500	3,23,01,861 14 3

(a) Including Rs. 1,94,031-13-3 written off in 1902-03 on account of properties not then existing.

(b) Do. Rs. 98,458-1-9 do. do. do. do.

(c) Excluding Rs. 2,40,000 paid out of the premia received on the loan.

(d) Excluding Rs. 7,34,326-8-3 paid out of the Invested Fund.

Appendix No. 6-A—*concluded.*

	Amount of Loans raised.	Amount expended.
	Rs.	Rs. a. p.
Brought forward Rs. ...	3,42,00,500	3,23,01,861 14 8
25 LAKHS LOAN FOR SEWERAGE, &c., WORKS—		
Drainage	25,00,000	11,25,083 14 4
Water Works		2,04,268 6 8
Disposal of Town Sweepings and Land for Burial Ground ...		11,33,264 0 0
	25,00,000	24,62,616 5 0
19¼ LAKHS LOAN FOR SEWERAGE, ROADS, &c., WORKS—		
Drainage	19,25,000	14,53,566 3 4
Miscellaneous Works		1,03,776 10 2
	19,25,000	15,57,342 13 6
24¾ LAKHS LOAN FOR SEWERAGE AND WATER WORKS—		
Drainage	24,75,000	17,16,595 0 7
Water Works		2,54,554 8 11
	24,75,000	19,71,150 9 6
12¾ LAKHS LOAN FOR WATER WORKS—		
Water Works	12,75,000	11,26,457 9 4
2ND 24¼ LAKHS LOAN FOR CERTAIN SEWERAGE WORKS—		
Drainage	24,75,000	18,47,307 6 3
13½ LAKHS LOAN FOR VARIOUS SANITARY, &c., WORKS—		
Health Department Chawls and Stables	13,50,000	11,48,513 1 3
15 LAKHS LOAN FOR STREET IMPROVEMENT IN DIFFERENT PLACES.	15,00,000	15,00,000 0 0
30 LAKHS LOAN—For acquisition of sites for construction of various		
Overbridges	30,00,000	20,31,231 4 5
55 LAKHS LOAN FOR MISCELLANEOUS WORKS—		
Buildings, &c.	55,00,000	8,35,781 1 11
Roads, &c.		1,73,261 4 8
Drainage		31,35,808 3 9
Water Works		3,70,044 7 3
Miscellaneous		1,43,023 3 10
	55,00,000	46,57,918 5 5
70 LAKHS LOAN for Tansa Reduplication and Auxiliary Works ...	70,00,000	69,98,315 3 5
20 LAKHS LOAN for Street Improvements	20,00,000	16,55,502 10 4
43 LAKHS LOAN FOR DRAINAGE, WATER, ROADS AND MISCELLANEOUS WORKS:—		
Buildings, &c.	43,00,000	3,66,454 7 10
Roads, &c.		2,28,921 15 11
Drainage		14,75,092 9 8
Water Works		97,297 10 9
Miscellaneous		1,48,967 11 10
	43,00,000	23,16,714 8 0
EXECUTED OUT OF SAVINGS ON DIFFERENT LOANS—		
Drainage	.....	12,05,675 1 1
Water Works	.....	9,26,107 13 10
Markets	.....	1,09,202 14 8
Roads, &c.	.....	1,82,900 13 11
Street Improvements in different places	.....	2,40,000 0 0
Miscellaneous Works	.....	4,28,026 12 8
	... .	31,01,975 8 2
ADVANCES FROM SURPLUS BALANCES—		
Drainage	.....	5,90,655 3 1
Water Works	....	84,735 6 0
Roads and Overbridges	.....	2,41,780 15 8
Other Works	. .....	3,59,164 5 4
	.....	12,76,335 14 1
LOAN FOR PLAGUE EXPENSES—		
Plague Expenses incurred from 1896-97 to 1903-04 (deducting Rs. 14¼ lakhs met from the Government Contribution, Rs. 16 Lakhs received from the City Improvement Trust and adjusted against this head and Rs. 9,10,952-7-4 met from advances from surplus loan balances in the first instance and written off by debit to Current Revenue during the years 1911-12 to 1913-14)	20,00,000	20,00,000 0 0
GRAND TOTAL ... Rs.	7,15,00,500 (*a*)	6,80,06,271 0 11 (*b*)

	Rs. a. p.
(*a*) Amount of Loans raised	7,15,00,500 0 0
(*b*) Do. expended	6,80,06,271 0 11
Invested Balances (*vide* Appendix 10, page 93) ... Rs.	34,94,228 15 1

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner.

Appendix

STATEMENT showing (1) the various Municipal Loans and their Amounts, (2) the unutilized Balances to meet the cost of New Works, &c.,

Serial No.	NAME OF THE LOAN.	Amount raised.	Transferred to meet the cost of New Works provided out of savings on different Loans.
	1	2	3
		Rs.	Rs. a. p.
1	Drainage Loan of 1878	26,94,000	—24,719 6 0
2	Surface Drainage Works	6,00,000	.....
3	Sanitary Works Loan (44 lakhs)	44,00,000	—77,275 8 8
4	Tansa Water Works (147 lakhs)	1,47,00,000	—3,616 9 0
5	Sanitary Works Loan of 1887-88	7,00,000	—95,421 10 8
6	Sewerage Works and Water Supply Improvement (12 Lakhs)	12,00,000	—2,18,531 7 10
7	Markets and other Miscellaneous Works (Rs. 10,08,500).	10,08,500	—2,57,299 4 8
8	House Sullage Water Connections, Agripada	2,48,000	—14,466 3 2
9	Various Sanitary Works (35 lakhs)	35,00,000	—3,33,724 7 4
10	New Municipal Office Building (8 lakhs)	8,00,000	—66,939 13 0
11	Fire Brigade Quarters and Stations (4½ lakhs)	4,50,000	—46,679 9 11
12	Drainage Water Works, Roads and other works (23¼ Lakhs)	23,25,000	—2,77,249 3 7
13	Sewerage, Wari Bunder, &c., Roads, Burial-ground and certain Water Works (15⅝ lakhs)	15,75,000	—3,09,684 2 5
14	Sewerage Water and other Sanitary Works (25 lakhs) ..	25,00,000	—37,383 11 0
15	Plague Charges (20 lakhs)	20,00,000	.....
16	Sewerage, Roads and other Sanitary Works (19¼ lakhs) .	19,25,000	—2,25,808 11 0
17	Sewerage and Water Works (24¾ lakhs)	24,75,000	—3,91,480 9 10
18	Certain Water Works (12¾ lakhs)	12,75,000	—1,06,166 0 8
19	Sewerage Works (2nd 24¾ lakhs)	24,75,000	—2,39,904 4 8
20	Construction of Quarters for Halalcores and Bigaries (13½ lakhs)	13,50,000	—69,091 7 7
21	Street Improvements (15 lakhs)	15,00,000	.....
22	Acquisition of sites for the construction of various Over-bridges in the City (30 lakhs)	30,00,000	.....
23	Miscellaneous Works (55 lakhs)	55,00,000	—3,30,871 5 3
24	Tansa Reduplication and Auxiliary Works (70 lakhs) ...	70,00,000	.....
25	Street Improvements (20 lakhs)	20,00,000	... ..
26	Drainage, Water, Roads and Mis. Works (43 lakhs) ...	43,00,000	—2,31,134 5 7
		7,15,00,500	—34,07,447 13 10
27	Works executed out of Savings on different Loans ...	.....	.....
	Total Rs. ...	.....	.....

W. E. WAITE,

Chief Accountant.

No. 6-B.

Expenditure incurred against each of them, (3) the Amounts withdrawn temporarily from their and (4) Invested Balances of the Loans on 31st March 1916.

Net Amount available.	Amount expended on works proper up to 31st March 1916.	Balance on 1st April 1916.	Amount advanced to meet the cost of sanctioned New works, &c., for which loans are yet to be raised.	Balances invested.
4	5	6	7	8
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
26,69,280 10 0	26,69,280 10 0	.....	.....	.....
6,00,000 0 0	6,00,000 0 0	.....	.....	.....
43,22,724 7 4	43,22,724 7 4	.....	.....	.....
1,46,96,383 7 0	1,46,96,383 7 0	.....	.....	.....
6,04,578 5 4	6,04,578 5 4	.....	.....	.....
9,81,468 8 2	9,81,468 8 2	.....	.....	.....
7,51,200 11 4	7,51,200 11 4	.....	.....	.....
2,33,533 12 10	2,33,533 12 10	.....	.....	.....
31,16,275 8 8	31,16,275 8 8	.....	.....	.....
7,33,060 3 0	7,33,060 3 0	.....	.....	.....
4,03,320 6 1	4,03,320 6 1	.....	.....	.....
20,47,750 12 5	20,47,750 12 5	.....	.....	.....
12,65,315 13 7	11,42,285 2 1	1,23,030 11 6	1,23,030 11 6	.....
24,62,616 5 0	24,62,616 5 0	.....	.....	.....
20,00,000 0 0	20,00,000 0 0	.....	.....	.....
16,99,191 5 0	15,57,342 13 6	1,41,848 7 6	1,41,848 7 6	.....
20,83,519 6 2	19,71,150 9 6	1,12,368 12 8	1,12,368 12 8	.....
11,68,833 15 4	11,26,457 9 4	42,376 6 0	42,376 6 0	.....
22,35,095 11 4	18,47,307 6 3	3,87,788 5 1	3,87,788 5 1	.....
12,80,908 8 5	11,48,543 1 3	1,32,365 7 2	1,32,365 7 2	.....
15,00,000 0 0	15,00,000 0 0	.....	.....	.....
30,00,000 0 0	20,84,231 4 5	9,15,768 11 7	3,36,557 12 2	5,79,210 15 5
51,69,128 10 9	46 57,918 5 5	5,11,210 5 4	.....	5,11,210 5 4
70,00,000 0 0	69,98,315 3 5	1,684 12 7	.....	1,684 12 7
20,00,000 0 0	16,55,502 10 4	3,44,497 5 8	.....	3,44,497 5 8
40,68,865 10 5	23,16,714 8 0	17,52,151 2 5	.....	17,52,151 2 5
6,80,93,052 2 2	6,36,27,961 10 8	44,65,090 7 6	12,76,335 14 1	31,88,754 9 5
34,07,447 13 10	31,01,973 8 2	3,05,474 5 8	.....	3,05,474 5 8
7,15,00,500 0 0	6,67,29,935 2 10	47,70,564 13 2	12,76,335 14 1	34,94,228 15 1

S. M. EDWARDES,
Municipal Commissioner.

Appendix No. 6-C.

STATEMENT showing the New Works financed from Surplus Cash (Revenue) Balance pending adjustment against savings in Loan Works already completed or inclusion in a New Loan to be raised hereafter.

Serial No.	PARTICULARS OF WORK.	Amount sanctioned.	Amount of expenditure adjusted against Loan Funds.	Balance.		Actual expenditure incurred up to 31st March 1916 to be adjusted hereafter.	REMARKS.
				Required for expenditure.	Not required.		
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p	Rs. a. p.	
	Construction of King Edward VII Memorial Hospital	4,697 7 7	.....	.....	....	4,697 7 7	
	Acquisition of land for Stone Depôt in Golanji Hill	71,085 0 0	71,084 1 7	.. ..	0 14 5	....	Adjusted against Advances from Surplus Loan and other balances.
	Construction of new Municipal Workshops at Foras Road ...	22,500 0 0	.....	22,500 0 0	.....	.....	
	Widening and reconstructing Mahim Bazaar Road	3,50,000 0 0	.. ..	2,17,641 5 5	.....	1,32,358 10 7	
	Street Improvements in different places	7,525 5 4	.....	7,525 5 4	.....	.....	
	Cost of adding to the road-way land acquired for Victoria Road.	12,621 0 0	10,098 13 2	.....	2,522 2 10	.....	Provided for under 20 Lakhs Loan.
	Carried over Rs. ...	4,68,428 12 11	81,182 14 9	2,47,666 10 9	2,523 1 3	1,37,056 2 2	

Appendix No. 6-C—*concluded.*

Serial Number.	Particulars of Work.	Amount sanctioned.	Amount of expenditure adjusted against Loan Funds.	Balance		Actual expenditure incurred up to 31st March 1916 to be adjusted hereafter.	Remarks.
				Required for expenditure.	Not required.		
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
	Brought forward Rs. ...	4,68,428 12 11	81,182 14 9	2,47,666 10 3	2,523 1 3	1,37,056 2 2	
	Acquisition of set-backs for Street Improvements ...	2,00,000 0 0	2,00,000 0 0	.....	.....	.....	Provided for under 20 Lakhs Loan.
	Do do. ...	2,00,000 0 0	21,694 4 0	.....	1,78,305 12 0	.....	Do. do.
	Acquisition of set-back land of Mr. Saklatwala	10,364 5 10	10,364 5 10	.....	.....	.....	Do. do.
	Cost of land at Clerk Road required for the use of the Road Department for stacking materials, parking carts, &c. ...	24,300 0 0	.....	.....	.....	24,300 0 0	
	Construction of a new outfall at Love Grove	1,50,000 0 0	.....	1,50,000 0 0	.....	.....	
	Tansa Reduplication and Auxiliary Works :—						
	Distributing mains in the City.	2,77,570 0 0	2,36,572 4 10	17,985 5 10	.....	23,012 5 4	
	Duplicating Syphon No. 8 ...	45,000 0 0	.....	4,036 13 0	.....	40,963 3 0	
	Reservoir at Golanji Hill ...	5,000 0 0	.....	1,216 9 6	.....	3,783 6 6	
	Reservoir at Ghatkoper	4,031 8 0	4,031 8 0	.....	.....	.....	Adjusted against Advances from Surplus Loan and other balances.
	Laying a 6" main in Parel Cross Road	14,886 0 0	.....	14,886 0 0	.....	.....	
	Filling in the Roman Catholic Cemetery at Haines Road ...	51,549 0 0	.....	51,549 0 0	.....	.....	
	Laying out a new Park at the site of the Old Bhatia Baug... ...	54,996 0 0	10,780 11 2	.....	44,215 4 10	.....	Do. do.
		15,06,125 10 9	5,64,626 0 7	4,87,340 7 1	2,25,044 2 1	2,29,115 1 0	

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner.

Appendix

STATEMENT of Outstanding Loans due by the Municipality and

No.	Particulars of Loans.	Rate of Interest.	Balance due on 1st April 1915.	Amount raised in 1915-16.	Total.	Amount re-paid in 1915-16.	Balance due on 31st March 1916.
	1	2	3	4	5	6	7
			Rs. a. p.	Rs. a. p.	Rs a. p.	Rs. a. p.	Rs. a. p.
	Loan raised from Government.						
1	Vehar Water Works Debt	4 per cent. ...	22,17,971 11 9	.....	22,17,971 11 9	25,696 12 0	21,92,274 15 9
	Loans raised from the Public.						
1	Drainage Loan of 1878 (Rs. 26,94,000)	5 per cent. ...	5,83,000 0 0	.....	5,83,000 0 0	(a) 1,20,000 0 0	4,63,000 0 0
2	The Sanitary Works Loan of 1885-86 (Rs. 44 Lakhs)	5 per cent. ...	37,39,000 0 0	.....	37,39,000 0 0	(b)	37,39,000 0 0
3	The Sanitary Works Loan of 1888 (Rs. 7 Lakhs)	5 per cent. ...	7,00,000 0 0	.....	7,00,000 0 0	(b)	7,00,000 0 0
4	The Tansa Water Works Loan (Rs. 147 Lakhs)	5 per cent. ...	1,47,00,000 0 0	.....	1,47,00,000 0 0	(b)	1,47,00,000 0 0
5	The Drainage and Water Works Loan of 1888 (Rs. 12 Lakhs) ...	5 per cent. ...	12,00,000 0 0	.....	12,00,000 0 0	(b)	12,00,000 0 0
6	The Miscellaneous Works Loan of 1888-89 for Drainage and Water Works, Markets and Roads (Rs. 10,08,500)	5 per cent. ...	10,08,500 0 0	.....	10,08,500 0 0	(b)	10,08,500 0 0
7	The Agripada House Sullage Water Connections Loan of 1889-90 of Rs. 2,48,000	5 per cent. ...	2,48,000 0 0	.....	2,48,000 0 0	(b)	2,48,000 0 0
8	The 35 Lakhs various Sanitary Works Loan of 1890-91 ...	5 per cent. ...	35,00,000 0 0	.....	35,00,000 0 0	(b)	35,00,000 0 0
9	The Municipal Office Building Loan of 1891 (Rs. 8 Lakhs)	5 per cent. ...	8,00,000 0 0	.....	8,00,000 0 0	(b)	8,00,000 0 0
10	The Loan of 4½ Lakhs for Fire Brigade Quarters and Stations ...	4 per cent. ...	4,50,000 0 0	.....	4,50,000 0 0	(b)	4,50,000 0 0
11	The Loan of 42 Lakhs for repayment of the Balance of the 4½ per cent. Government Consolidated Loan	4 per cent. ...	42,00,000 0 0	.....	42,00,000 0 0	(b)	42,00,000 0 0
12	The Loan of 23¼ Lakhs for Drainage and other Works	4 per cent. ...	23,25,000 0 0	.....	23,25,000 0 0	(b)	23,25,000 0 0
13	The Loan of 15¾ Lakhs for Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works (1st instalment of Rs. 10 Lakhs)	3½ per cent. ...	15,75,000 0 0	.....	15,75,000 0 0	(b)	15,75,000 0 0
	Do. do. (2nd instalment of Rs. 5¾ Lakhs)...	4 per cent. ...					
14	25 Lakhs Loan for Sewerage, Water and other Sanitary Works ...	4 per cent. ...	25,00,000 0 0	.....	25,00,000 0 0	(b)	25,00,000 0 0
15	20 Lakhs Loan for Plague purposes..	4 per cent. ...	20,00,000 0 0	.....	20,00,000 0 0	(b)	20,00,000 0 0
16	19¼ Lakhs Loan for Sewerage, Roads and other Sanitary Works..	4 per cent. ...	19,25,000 0 0	.....	19,25,000 0 0	(b)	19,25,000 0 0
17	24¾ Lakhs Loan for certain Sewerage and Water Works	4 per cent. ...	24,75,000 0 0	.....	24,75,000 0 0	(b)	24,75,000 0 0
18	12¾ Lakhs Loan for certain Water Works	4 per cent. ...	12,75,000 0 0	.....	12,75,000 0 0	(b)	12,75,000 0 0
19	The 2nd 24¾ Lakhs Loan for certain Sewerage Works	4 per cent. ...	24,75,000 0 0	.....	24,75,000 0 0	(b)	24,75,000 0 0
20	13½ Lakhs Loan for the construction of quarters for Halalkhores and Biggaries	4 per cent. ...	13,50,000 0 0	.....	13,50,000 0 0	(b)	13,50,000 0 0
21	The 15 Lakhs Loan for Street Improvements	4 per cent. ...	15,00,000 0 0	.....	15,00,000 0 0	(b)	15,00,000 0 0
22	The 30 Lakhs Loan for the acquisition of sites for the construction of different Overbridges in the City	4 per cent. ...	30,00,000 0 0	.....	30,00,000 0 0	(b)	30,00,000 0 0
23	The 55 Lakhs Loan for Drainage, Sanitary, Water and other Miscellaneous Works	4 per cent. ...	55,00,000 0 0	.....	55,00,000 0 0	(b)	55,00,000 0 0
24	The 70 Lakhs Loan for re-duplication of Tansa Main and other Auxiliary Works	4 per cent. ...	69,98,500 0 0	1,500 0 0	70,00,000 0 0	(b)	70,00,000 0 0
25	The 20 Lakhs Loan for Street Improvements	4 per cent. & extra ¾ „ „ on Rs. 14 Lakhs.	6,00,000 0 0	14,00,000 0 0	20,00,000 0 0	.....	20,00,000 0 0
26	The 43 Lakhs Loan for Drainage, Water, Roads and Miscellaneous Works.	4 per cent & extra ¾ „ „ on Rs. 26 Lakhs.	.....	43,00,000 0 0	43,00,000 0 0	.....	43,00,000 0 0
	Total of Loans raised from the Public ...	Rs. ...	6,66,27,000 0 0	57,01,500 0 0	7,23,28,500 0 0	1,20,000 0 0	7,22,08,500 0 0
	GRAND TOTAL ...	Rs. ...	6,88,44,971 11 9	57,01,500 0 0	7,45,46,471 11 9	1,45,696 12 0	7,44,00,774 15 9

W. E. WAITE,

Chief Accountant.

No. 7.

the sums set aside as Sinking Fund at 31st March 1916.

Interest paid in 1915-16.	Total of columns Nos. 6 and 8.	Remarks.
8	9	
Rs. a. p.	Rs. a. p.	(a) The amount stipulated to be paid off on 1st January 1916 was Rs. 1,29,000, which, together with unpaid debentures aggregating Rs. 26,000 for the preceding years, aggregated Rs. 1,55,000 against which the debentures actually surrendered for payment up to 31st March 1916 amounted to Rs. 1,20,000. The unpaid balance thus amounts to Rs. 35,000 which is represented by the following debentures:— No. 2268 for Rs. 500 repayable on 1st January 1906, Nos. 2780 to 2788, 2804 to 2815 for Rs. 500 each, repayable on 1st January 1909, No. 2984 repayable on 1st January 1910, No. 3386 repayable on 1st January 1912, Nos. 4083 to 4086 and 4246 to 4249 for Rs. 500 each, repayable on 1st January 1915 and Nos. 4275 to 4293, 4295 to 4298, 4308, 4309, 4313, 4314, 4318, 4499 to 4508 for Rs. 500 each repayable on 1st January 1916. The unpaid debentures do not carry interest beyond the due date and will be repaid from the renewed grant when the holders apply for payment.
88,279 4 0	1,13,976 0 0	(b) As under the terms of these Loans the bonds cannot be repaid to the holders before the dates stipulated in the debentures, the Sinking Fund has been invested as under:—

	Amount of Sinking Fund invested up to 31st March 1915.	Sinking Fund Instalments paid in 1915-16.	Interest accumulations invested in 1915-16.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
27,450 0 0 / 1,47,450 0 0	*I.—5 per cent. Loans.*			
1,34,700 0 0 / 1,34,700 0 0	44 Lakhs Sanitary Works Loan	21,10,272 8 10	41,222 4 0	91,007 3 1	22,42,501 15 11
	7 Do. do. do.	3,38,105 13 2	8,429 0 7	14,126 3 9	3,60,661 1 6
32,062 8 0 / 32,062 8 0	147 Do. Tansa Water Works Loan	19,29,557 14 6	64,522 1 0	80,899 9 0	20,74,979 8 6
7,32,612 8 0 / 7,32,612 8 0	13 Do. Drainage and Water Works Loan	5,94,409 14 8	12,748 12 3	35,221 10 0	6,42,380 4 11
	Rs. 10,98,500 Miscellaneous Works Loan	4,64,828 11 5	11,040 15 6	20,261 5 10	4,96,781 0 9
58,875 0 0 / 58,875 0 0	Rs. 2,48,000 Agripada House Sullage Water Connections Loan	1,13,345 5 2	2,688 8 1	4,774 4 8	1,20,708 6 2
	35 Lakhs Various Sanitary Works Loan	14,21,992 10 2	43,572 12 6	59,707 9 6	15,25,273 0 2
	8 Do. Municipal Office Building Loan	3,10,516 1 10	9,128 8 9	13,311 4 10	3,32,955 15 5
48,700 0 0 / 48,700 0 0	Total I ...	72,82,929 4 0	1,93,952 14 8	3,09,309 2 8	77,86,191 5 4
			5,03,262 1 4		
12,362 8 0 / 12,362 8 0	In 5 and 4 per cent. Municipal and 4 per cent. Improvement Trust Debentures and in 3½ per cent. Govt. Paper at par lodged with the Bank of Bombay	72,82,500 0 0	5,03,500 0 0		77,86,000 0 0
1,68,750 0 0 / 1,68,750 0 0					
40,000 0 0 / 40,000 0 0	Cash deposited with the Bank of Bombay	429 4 0	— 237 14 8		191 5 4
18,000 0 0 / 18,000 0 0	*II.—4 per cent. Loans. (3½ per cent. basis).*				
	4½ Lakhs Fire Brigade Quarters and Stations Loan...	2,79,494 12 5	8,288 12 11	10,582 9 6	2,98,361 2 10
	42 Lakhs Loan for repayment of Balance of Government Consolidated Loan	24,32,597 2 7	81,557 14 8	92,759 9 5	26,56,914 10 8
1,68,320 0 0 / 1,68,320 0 0	23½ Lakhs Loan for Drainage and other Works ...	7,19,907 13 7	27,560 11 11	26,970 0 1	7,74,438 9 7
94,200 0 0 / 94,200 0 0	15¾ Lakhs Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground and Certain Water Works (2nd instalment)	1,70,718 1 4	6,339 0 0	6,383 14 0	1,83,445 15 4
	25 Lakhs Loan for Sewerage, Water, &c., Works ...	5,61,877 0 2	29,161 4 3	20,775 14 2	6,11,814 2 7
	26 Lakhs Loan for Plague purposes	12,76,848 14 10	69,478 15 3	48,387 13 0	13,94,710 11 1
42,087 8 0 / 42,087 8 0	19¼ Lakhs Loan for Sewerage, Roads and other Sanitary Works...	4,04,957 3 8	22,400 4 7	15,015 5 7	4,42,372 13 10
	24¾ Lakhs Loan for Sewerage and Water Works ...	3,88,129 11 1	28,738 13 9	14,891 10 9	4,31,805 8 7
	12¾ Lakhs Loan for certain Water Works	2,95,814 11 9	24,577 11 11	11,083 4 10	3,31,475 12 6
1,00,330 0 0 / 1,00,330 0 0	2nd 24¾ Lakhs Loan for Sewerage Works	The Sinking Fund of this Loan is shown under a separate head below, it having been decided that the investments should be on a 3 per cent. basis.			
79,790 0 0 / 79,790 0 0					
77,270 0 0 / 77,270 0 0	Total II ...	65,79,740 7 5	2,98,148 9 3	2,47,455 1 4	71,25,339 2 0
			5,45,598 10 7		
98,190 0 0 / 98,190 0 0					
42,480 0 0 / 42,480 0 0	In 4 per cent. Municipal and Improvement Trust Debentures and in 3½ per cent. Govt. Paper lodged with the Bank of Bombay	65,79,668 2 0	5,45,500 0 0		71,25,168 2 0
72,060 0 0 / 72,060 0 0					
	Cash deposited with the Bank of Bombay	72 5 5	+ 98 10 7		171 0 0
55,440 0 0 / 55,440 0 0	*III.—4 per cent. Loans (3 per cent. basis).*				
59,480 0 0 / 59,480 0 0	2nd 24¾ Lakhs Loan for Sewerage Works	2,95,724 12 11	32,683 15 10	9,273 10 0	3,37,682 6 9
	18¾ Lakhs Loan for the construction of quarters for Halalkhores and Biggaries	1,87,178 9 10	28,363 3 9	6,103 6 11	2,21,645 4 6
	15 Lakhs Loan for Street Improvements	1,07,680 5 3	19,899 15 0	3,569 4 8	1,31,149 8 6
	80 Lakhs Loan for acquisition of sites for Overbridges	2,18,447 2 9	39,184 1 5	7,070 13 3	2,64,702 1 5
1,23,387 5 0 / 1,23,387 5 0	65 Lakhs Loan for Drainage, Sanitary, Water and other Miscellaneous Works	1,23,484 5 3	1,21,632 0 0	5,559 11 10	2,50,676 1 1
	70 Lakhs Loan for re-duplication of Tansa Main and other auxiliary works	.....	78,148 0 0	1,172 15 1	79,320 15 1
2,20,000 0 0 / 2,20,000 0 0	Total III ...	9,27,515 4 0	3,19,911 4 0	32,749 13 4	12,80,176 5 4
2,82,416 7 11 / 2,82,416 7 11	In 3 per cent. Government Paper, etc., lodged with the Bank of Bombay	9,27,400 0 0	3,52,661 1 4		12,80,060 0 0
27,275 2 10 / 1,273 7 0 / 28,548 9 10			3,52,500 0 0		
27,967 1 11 / 2,364 15 3 / 30,332 1 2	Cash deposited with the Bank of Bombay	115 4 0	+ 61 1 4		176 5 4
	IV.—3½ per cent. Loans.				
	15¾ Lakhs Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works (1st instalment)	2,90,631 5 4	12,049 9 4	10,492 12 8	3,13,173 11 4
28,97,844 7 11 / 30,17,844 7 11			22,542 6 0		
	In 3½ per cent. Government Paper, etc., lodged with the Bank of Bombay	2,90,501 9 0	22,500 0 0		3,13,001 9 0
	Cash deposited with the Bank of Bombay	129 12 4	+ 42 6 0		172 2 4
29,86,123 11 11 / 31,31,826 7 11	GRAND TOTAL I, II, III and IV ...	1,56,80,816 4 9	8,24,057 5 3	6,00,006 14 0	1,65,04,880 8 0

S. M. EDWARDES,

Municipal Commissioner.

Appendix

SINKING

STATEMENT showing the Actual Investments on account of the Sinking Fund of Different that date on the basis

NAME OF LOAN.	Amount raised.	When repayable.	Amount of Annual Sinking Fund Instalment.	Date when Sinking Fund commenced.
1	2	3	4	5
	Rs.	Rs.	Rs.	
5 per cent. Municipal Loans.				
44 Lakhs Sanitary Works Loan ...	44,00,000	1st July 1886 7,000 1st „ 1887 4,48,000 1st „ 1890 51,000 1st „ 1895 1,60,000 1st „ 1925 37,39,000	† 41,872	..... *
7 Lakhs Sanitary Works Loan	7,00,000	1st February 1928 ...	8,170	1st February 1889...
147 Lakhs Tansa Water Works Loan ...	1,47,00,000	(*a*) Between 1st January 1928 and 1st Jan. 1953.	66,040	1st January 1893 ...
12 Lakhs Drainage and Water Works Loan.	12,00,000	1st January 1928 ...	(*b*) 12,616	1st January 1889 ...
Rs. 10,98,500 Miscellaneous Works Loan.	10,98,500	1st October 1928 ...	11,940	1st October 1889 ...
Rs. 2,48,000 Agripada House Sullage Water Connections Loan.	2,48,000	1st July 1929 ...	2,659	1st January 1891 ...
35 Lakhs various Sanitary Works Loan.	35,00,000	1st July 1930 ...	43,061	1st July 1891 ...
8 Lakhs Municipal Office Building Loan.	8,00,000	1st July 1931 ...	9,293	1st July 1892 ...
4 per cent. and 3½ per cent. Municipal Loans (3½ per cent. basis.)				
4½ Lakhs Fire Brigade Quarters and Stations Loan.	4,50,000	1st January 1923 ...	8,570	1st January 1894 ...
42 Lakhs Loan for the repayment of the balance of Government Consolidated Loan.	42,00,000	1st July 1923 ...	80,678	1st July 1894 ...
23½ Lakhs Loan for Drainage and other Works.	23,25,000	1st July 1935 ...	27,467	1st July 1896 ...
15¾ Lakhs Loan for Sewerage, Wari Bunder, etc., Roads, Burial Ground and certain Water Works—				
1st Instalment	10,00,000 raised at 3½ per cent.		(*c*) 11,147	
2nd do.	5,75,000 raised at 4 per cent.	1st July 1936 ...	7,286	1st July 1897 ...
25 Lakhs Loan for Sewerage, Water, etc., Works.	25,00,000	1st November 1939 ...	29,535	1st November 1900.
20 Lakhs Loan for Plague purposes ...	20,00,000	1st May 1920 ...	70,482	1st May 1901 ...
19¼ Lakhs Loan for Sewerage Roads and other Sanitary Works.	19,25,000	1st June 1940 ...	22,698	1st June 1901 ...
24¾ Lakhs Loan for certain Sewerage and Water Works.	24,75,000	1st June 1943 ...	29,286	1st June 1904 ...
12¾ Lakhs Loan for certain Water Works.	12,75,000	1st August 1934 ...	24,698	1st August 1905 ...
4 per cent. Municipal Loans (3 per cent. basis.)				
2nd 24¾ Lakhs Loan for Sewerage Works.	24,75,000	1st August 1946 ...	32,823	1st August 1907 ...
18½ Lakhs Loan for the construction of Quarters for Halalkhores and Bigaries.	18,50,000	1st May 1938 ...	28,376	1st May 1909 ...
15 Lakhs Loan for Street Improvements.	15,00,000	1st May 1949 ...	19,893	1st May 1910 ...
30 Lakhs Loan for the acquisition of sites, for the construction of various overbridges in the City.	30,00,000	1st May 1949 ...	39,787	1st November 1910.
55 Lakhs Loan for Miscellaneous Works.	55,00,000	1st June 1942 ...	1,21,632	1st June 1914 ...
70 Lakhs Loan for reduplication of Tansa Main and other auxiliary works.	70,00,000	..... ¶	78,148	1st June 1915 ...
			Total Rs. ...	

¶ Rs. 49,40,000 repayable on 1st June 1954.
„ 20,60,000 „ „ 1st June 1974.
Rs. 70,00,000

W. E. WAITE,
Chief Accountant.

No. 7.A.

FUND.

Loans up to 31st March 1916, compared with the amounts which should have accumulated up to of the Fixed Instalments.

Amount of Sinking Fund which should have accumulated up to 31st March 1916 at Compound Interest.	Amount actually invested up to 31st March 1916.	Amount of Interest due up to 31st March 1916 collected and invested in 1916-17.	Total of Columns 7 and 8.	Remarks.
6	7	8	9	10
Rs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	† All the Sinking Fund Instalments were re-arranged during 1906-07 on a 3½ per cent. basis as per Corporation Resolution No. 4946 of 9th February 1905
22,81,944	22,42,501 15 11	37,351 13 5	22,79,853 13 4	* As Rs. 6,81,000 of this Loan were paid off by 31st December 1895, leaving a balance of Rs. 37,39,000 repayable on 1st July 1925, and as the Invested Sinking Fund on 31st March 1896 amounted to Rs. 4,51,047-15-5, the amount of the Annual Sinking Fund Instalment was reduced from Rs. 57,000 to Rs. 30,550 from 1st January 1897.
3,66,441	3,60,661 1 6	5,894 6 8	3,66,055 8 2	
21,03,819	20,74,979 8 6	31,829 3 11	21,06,808 12 5	(a) Rs. 2,00,000 repayable on 1-1-1928.
6,42,723	6,32,380 4 11	10,071 11 2	6,42,452 0 1	,, 52,91,500 ,, ,, 1-1-1933.
5,03,918	4,96,731 0 9	8,343 3 11	5,05,074 4 8	,, 92,08,500 ,, ,, 1-1-1943.
1,22,675	1,20,708 6 2	1,908 3 7	1,22,616 9 9	,, 17,00,000 ,, ,, 1-1-1946.
15,48,498	15,25,273 0 2	22,507 2 8	15,47,780 2 10	,, 10,00,000 ,, ,, 1-1-1948.
3,37,706	3,32,955 15 5	5,154 2 9	3,38,110 2 2	,, 43,00,000 ,, ,, 1-1-1953.
3,01,271	2,98,361 2 10	3,365 1 9	3,01,726 4 7	(b) In January 1889 Rs. 10,000 were invested and in subsequent years Rs. 11,000.
26,88,109	26,56,914 10 8	29,396 10 6	26,86,311 5 2	
7,83,099	7,74,438 9 7	8,493 9 6	7,82,932 3 1	
3,14,920	3,13,173 11 4	3,101 8 0	3,16,275 3 4	(c) In 1897-98 Rs. 18,875 were invested in 3½ per cent. Government Paper.
1,86,373	1,83,445 15 4	1,970 3 5	1,85,416 2 9	
6,19,054	6,11,814 2 7	7,751 8 10	6,19,565 11 5	
14,10,239	13,94,710 11 1	17,115 7 6	14,11,826 2 7	
4,46,734	4,42,372 13 10	5,401 0 3	4,47,773 14 1	
4,35,662	4,31,805 3 7	5,019 3 6	4,36,824 7 1	
3,33,640	3,31,475 12 6	2,819 14 11	3,34,295 11 5	
3,40,119	3,37,682 6 9	2,538 4 10	3,40,220 11 7	
2,23,409	2,21,645 4 6	1,775 9 3	2,23,420 13 9	
1,32,214	1,31,149 8 6	1,060 7 3	1,32,209 15 9	
2,60,575	2,59,702 1 5	2,099 2 11	2,61,801 4 4	
2,51,261	2,50,676 1 1	2,509 0 11	2,53,185 2 0	
80,102	79,320 15 1	794 3 9	80,115 2 10	
1,67,14,510	1,65,04,880 8 0	2,17,771 1 2	1,67,22,651 9 2	

S. M. EDWARDES,
Municipal Commissioner.

Appendix

STATEMENT showing the Interest outstanding on 1st April 1915 on the different of Bombay during that year, and the

	Name of each Loan.	Dates when raised.	AUTHORITY. Corporation Resolution.	AUTHORITY. Government Resolution.
	5 per cent. Loans.			
1	Drainage Loan of 1878 (Rs. 26,94,000) ...	1st November and 1st December 1878.	No. 1296 10-9-78.	No. 2951 28-9-78.
2	The Sanitary Works Loan of 1885-86 (Rs. 44,00,000).	Between 5th May 1885 and 30th March 1886.	Nos. 9021 8-12-81, 438 16-5-83 and 905 12-3-82	Nos. 2669 17-7-82, 460 4-2-84 and 384 2-2-85, 124 27-4-85. 3771 19-10-85,
3	The Sanitary Works Loan of 1888 (Rs. 7,00,000).	1st February 1888	No. 991 13-10-86.	No. 1427 4-5-88.
4	The Tansa Water Works Loan (Rs. 1,47,00,000).	Between 5th June 1886 and 24th December 1891.	Nos. 1212 13-11-86 and 345 9-4-91.	Nos. 561 12-2-86, 2876 21-9-87, 3392 23-8-90 and 1008 16-3-88, 3978 21-7-88, 3262-63 15-9-91. 1630 31-5-86, 4198 8-10-89,
5	The Drainage and Water Works Loan of 1888 (Rs. 12,00,000).	1st January and 1st July 1888 ...	Nos. 894 20-7-87 and 1145 8-9-87.	No. 873 16-3-88.
6	The Miscellaneous Works Loan, 1888-89 (Drainage and Water Works, Markets and Roads) (Rs. 10,08,500.)	Between 1st November 1888 and 1st July 1889.	No. 29 4-4-88.	Nos. 4937 7-9-88, 3280 19-9-89, 4138 24-11-88
7	The Agripada House Sullage and Water Connections Loan of 1889-90 (Rs. 2,48,000).	Between 1st January and 1st July 1890.	No. 4688 8-10-86.	Nos. 6547 28-12-89 and 17 3-1-90.
8	The Various Sanitary Works Loan of 1890-91 (Rs. 35,00,000).	Between 25th September. 1890 and 1st January 1892.	Nos. 29 4-4-88, 572 13-5-89, 433 17-4-90 and 5233 19-11-88, 5152 25-11-89, 1488 22-5-90. 5605 7-1-89, 6235 23-1-90,	No. 2392 23-8-90.
9	The Municipal Building Loan of 1891 (Rs. 8,00,000).	24th December 1891	No. 11551 9-2-91.	No. 3262 15-9-91.
	4 per cent. Loans.			
10	The Loan for Fire Brigade Quarters and Stations (Rs. 4,50,000).	23rd December 1892, 30th November and 1st December 1893.	No. 5144 8-8-93.	Nos. 1023 29-3-92, 3145 6-9-92. and 2501 14-6-92, 2164 28-6-93
11	The Loan for repayment of the balance of the 4½ per cent. Government Consolidated Loan (Rs. 42,00,000).	28th and 29th June 1893 ...	No. 13956 28-3-93.	No. 1989 6-4-95.
12	The Loan for Drainage and other Works (Rs.23,25,000).	12th and 31st January 1894 and 11th and 15th July 1895.	No. 6222 28-9-93.	Nos. 809 3-3-94 and 3764 8-10-94.
*13	The Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground, and certain Water Works (Rs. 15,75,000 of which the 2nd instalment of Rs. 5,75,000 was raised at 4 per cent.).	17th July 1899	Nos. 504 12-4-94, 8978 7-11-96, 14435 25-3-97. 13897 7-3-95, 12064/5 4-2-97 and 8892 7-11-95,	Nos. 3501 23-6-95, 3643 23-6-99. 883 22-2-96, 2320 3-6-99 and
14	The Loan for Sewerage and other Sanitary Works (Rs. 25,00,000).	17th and 18th July 1899 ...	Nos. 8978 7-11-96, 14435 25-3-97. 12034/5 4-5-97 and	Nos. 3841 A 28-8-97, 2320 3-6-99. and Telegram 26-7-98
15	The Loan for Plague purposes (Rs. 20,00,000).	6 lakhs raised between 15th July and 20th Dec. 1899, 6 lakhs raised in Nov. 1900 and 8 lakhs raised between 12th Aug. and 9th Oct. 1902.	No. 8099 6-12-97.	Nos. 4960 5-9-98 and 2560 16-9-99.
16	The Loan for Sewerage, Roads and other Sanitary Works (Rs. 19,25,000).	18th and 19th July 1899 and September 1900.	No. 628 18-4-98.	Nos. 4960 5-9-98 and 2540 16-6-99.
17	The Loan for certain Sewerage and Water Works (Rs. 24,75,000).	6 lakhs raised between 15th June and 1st July 1901, 11 lakhs raised between 23rd Aug. and 31st October 1901, 4 lakhs raised between 19th Aug. and 28th Oct. 1902, and 3¾ lakhs raised on 9th Sep. 1903.	No. 1956 14-5-1900.	No. 3427 15-6-1901.
18	The Loan for certain Water Works (Rs. 12,75,000).	1st September 1904	No. 244 28-4-03.	No. 4416 22-8-04.
19	The 2nd 24¾ Lakhs Loan for certain Seworage Works.	Rs. 12 lakhs raised on 3rd September 1905 and Rs. 12¾ lakhs on 9th September 1907.		No. 4064 21-7-05 and Telegram 31-8-05. No. 4792 5-9-07 and Telegram 21-7-07.
20	The 13½ Lakhs Loan for the construction of quarters for Halalkhores and Biggaries.	7th August 1908	No. 2204 of 29-6-08	No. 3447 9-5-08.
21	The 15 Lakhs Loan for Street Improvements.	29th July 1909	No. 7558 of 20-9-07	No. 6178 17-8-08.
22	The 30 Lakhs Loan for the acquisition of sites for the construction of various over-bridges in the City.	29th July 1909, and 10th August 1910.	No. 181 of 8-4-09	No. 3812 28-7-09.
23	The 55 Lakhs Loan for Drainage, Sanitary, Water and other Miscellaneous works.	7th and 10th August and 1st November 1911 and 1st August 1913.	No. 6426 of 31-1-10	No. 4680. and Telegram 1-8-11 No. 4688-A. 28-7-11
24	The 70 Lakhs Loan for the re-duplication of the Tansa Main and other Auxiliary Works.	9th September 1913, 22nd July 1914 and 10th April 1915.	No. 4051 of 14-10-12	No. 6159 21-8-13 and Telegram 18-8-13.
25	The 20 Lakhs Loan for Street Improvement.	9th September 1913 and 24th September 1915.	No. 4047 of 14-10-12	Do.
26	Loan of Rs. 43 Lakhs for Drainage Water Roads and Miscellaneous works.	1st August and 24th September 1915.	No. 4051 of 14-10-12 and No. 2608 of 26-7-15.	7386 (*G. D.*) 1-10-15
	3½ per cent. Loan.			
13	The Loan for Sewerage, Wari Bunder, &c., Board, Burial Ground and certain Water Works (Rs 15,75,000, of which the 1st instalment of Rs. 10 lakhs was raised at 3½ per cent.)	1st December 1896	(*Vide* Reso. Nos. against Loan No 13.)	(*Vide* Reso. Nos. against Loan No. 13) .. ...

W. E. WAITE,
Chief Accountant.

No. 8.

Loans, the amounts payable for the year 1915-1916, the amounts paid by the Bank Balances outstanding on 31st March 1916.

Date when Loan is repayable.	Interest outstanding on 1st April 1915.	Interest payable in 1915-1916.	Total Interest due.	*Deduct*—Interest paid by the Bank of Bombay.	Outstanding Balance on 31st March 1916.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1st January 1919	13,787 8 0	27,850 0 0	41,637 8 0	27,450 0 0	14,187 8 0
1st July 1925	22,762 8 0	1,86,950 0 0	2,09,712 8 0	1,84,700 0 0	25,012 8 0
1st February 1928	8,200 0 0	35,000 0 0	43,200 0 0	32,062 8 0	11,137 8 0
Between 1st January 1928 and 1st January 1953.	32,375 0 0	7,35,000 0 0	7,67,375 0 0	7,32,612 8 0	34,762 8 0
1st January 1928	5,800 0 0	60,000 0 0	65,800 0 0	58,875 0 0	6,925 0 0
1st October 1928	4,450 0 0	50,425 0 0	54,875 0 0	48,700 0 0	6,175 0 0
1st July 1929	125 0 0	12,400 0 0	12,525 0 0	12,362 8 0	162 8 0
1st July 1930	19,075 0 0	1,75,000 0 0	1,94,075 0 0	1,68,750 0 0	25,325 0 0
1st July 1931	.....	40,000 0 0	40,000 0 0	40,000 0 0	.....
1st January 1923	1,610 0 0	18,000 0 0	19,610 0 0	18,000 0 0	1,610 0 0
1st July 1923	15,700 0 0	1,68,000 0 0	1,83,700 0 0	1,68,320 0 0	15,380 0 0
1st July 1935	7,100 0 0	93,000 0 0	1,00,100 0 0	94,200 0 0	5,900 0 0
1st July 1936	460 0 0	23,000 0 0	23,460 0 0	23,240 0 0	220 0 0
1st November 1939	610 0 0	1,00,000 0 0	1,00,610 0 0	1,00,330 0 0	280 0 0
1st May 1920	4,610 0 0	80,000 0 0	84,610 0 0	79,790 0 0	4,820 0 0
1st June 1940	6,490 0 0	77,000 0 0	83,490 0 0	77,270 0 0	6,220 0 0
1st June 1943	4,910 0 0	99,000 0 0	1,03,910 0 0	98,190 0 0	5,720 0 0
1st August 1934	1,230 0 0	51,000 0 0	52,230 0 0	42,480 0 0	9,750 0 0
1st August 1946	1,950 0 0	99,000 0 0	1,00,950 0 0	72,060 0 0	28,890 0 0
1st May 1938	5,550 0 0	54,000 0 0	59,550 0 0	55,440 0 0	4,110 0 0
1st May 1949	2,840 0 0	60,000 0 0	62,840 0 0	59,480 0 0	3,360 0 0
1st May 1949	6,997 4 10† −1	1,20,000 0 0	1,26,997 4 10	1,23,387 5 0	3,609 15 10† −1
1st June 1942	540 0 0	2,20,000 0 0	2,20,540 0 0	2,20,000 0 0	540 0 0
§ 1st June 1954 and 1st June 1974.	10,682 11 4	2,79,978 8 9	2,90,841 4 1	2,82,416 7 11	8,424 12 2† +1
1st May 1955	3 9 11 2	31,103 9 2	31,443 4 4	28,548 9 10	2,894 10 6
1st May 1945	.....	30,332 1 2	30,332 1 2	30,332 1 2	.....
1st July 1936	227 8 0	35,000 0 0	35,227 8 0	18,847 8 0	16,380 0 0
Total Rs. ...	1,7[illegible],602 3 5† +0 0 1†	23,61,739 3 1	31,39,341 6 6 +0 0 1	28,97,844 7 11	2,41,796 14 6 +0 0 1†

† Difference arising on account of interest for broken period on small holdings.

§ Rs. 49,40,000 repayable on 1st June 1954.
„ 20,60,000 „ „ 1st June 1974.
Rs. 70,00,000

S. M. EDWARDES,
Municipal Commissioner.

Appendix No. 9.

STATEMENT showing Works executed out of Loan Funds during 1915-1916.

Particulars.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—BUILDINGS, LANDS AND SANITARY STRUCTURES—			
18½ LAKHS LOAN—			
Construction of chawls, &c., for Halalkhores at Valpakhadi.	1,759 1 0		
Construction of semi-permanent huts for Halalkhores at Tardeo Flats	3,773 1 9		
Construction of chawls for Bigaries at Arthur Road	10,842 1 5		
Construction of stables and chawls for B Ward at Jail Road, North	14,302 7 1		
Construction of a stable for E Ward, West, at Kamatipura...	1,897 0 1		
Construction of stables and chawls for Bigaries and bullocks of D Ward at Annesley Road	4,228 3 4		
		36,301 14 8	
55 LAKHS LOAN—			
Construction of buildings for Primary Schools		39,440 10 6	
42 LAKHS LOAN—			
Construction of New Municipal Workshops at Foras Road ...	3,66,314 10 3		
Construction of Incinerators for Refuse destruction	71 7 7		
Construction of New Ward Offices at Babula Tank for the Assessment and Health Departments	48 6 0		
		3,66,434 7 10	
SAVINGS ON DIFFERENT LOANS—			
Construction of semi-permanent quarters for Halalkhores on the Foras Tank site		2,229 10 1	
ADVANCES FROM SURPLUS BALANCES—			
Acquisition of land for a New Fire Brigade Station in the Fort District	95,600 0 0		
Acquisition of a plot of land at Ormiston Road from the Bombay Electric Supply and Tramways Coy., Ltd., for a Metal Depot	1,49,492 8 0		
Acquisition of land for a Stone Depot in Golanji Hill ...	71,084 1 7		
Construction of New Municipal Workshops at Foras Road ...	*Cr.* 2,54,021 1 10		
Construction of New Ward Offices at Babula Tank for the Assessment and Health Departments	*Cr.* 48 6 0		
		62,107 1 9	
A.—Buildings, Lands and Sanitary Structures—Total Rs. ...			5,06,513 12 10
B.—ROADS AND OVERBRIDGES—			
15¾ LAKHS LOAN—			
Worli Bunder Road		1,465 1 3	
30 LAKHS LOAN—			
Overbridge at Currey Road, G. I. P. Railway	*Cr.* 33,050 3 6		
Do. at Clerk Road do.	*Cr.* 24,256 0 0		
Do. at Clerk Road, B. B. & C. I. Railway... ...	1,994 1 1		
Do. at Elphinstone Road, B. B. & C. I. & G. I. P. Railways	309 0 3		
Establishment charges for various Overbridges	2,862 5 9		
		Cr. 45,140 12 5	
20 LAKHS LOAN—'			
Street improvements in different places		10,55,502 10 4	
43 LAKHS LOAN—			
Construction of a road from the B. B. & C. I. Railway Matunga Station Westward to Mahim including storm-water drains	1,85,287 5 3		
Construction of a 60 ft. road along Tulsi Pipe line from De-Lisle Road to Dadar Road including storm-water drains ...	5,690 1 8		
Widening of Queen's Road from the Church Gate Railway Station to Wodehouse Bridge	37,944 9 6		
		2,28,921 15 11	
SAVINGS ON DIFFERENT LOANS—			
Acquisition of land—			
(1) At Hamalwadi	38,430 0 10		
Construction of a road running Eastwards from Lady Hardinge Road to the G. I. P. Ry. new level crossing at Matunga and providing storm-water drain thereat ...	13,425 15 7		
Widening and improving Cumballa Hotel Lane and Gowalia Tank Road (Municipal Contribution)...	23,910 2 5		
		75,766 2 10	
ADVANCES FROM SURPLUS BALANCES—			
Street Improvements in different places	*Cr.* 4,34,918 10 5		
Construction of a road from the B. B. & C. I. Railway Matunga Station Westward to Mahim including storm-water drains	*Cr.* 1,84,214 12 1		
Construction of a 60 ft. road along Tulsi pipe line from DeLisle Road to Dadar Road, including storm-water drains and other roads	*Cr.* 4,914 11 4		
Works executed out of Advances from Surplus Balances carried over ... ... Rs.	*Cr.* 6,24,048 1 10		
B.—Roads and Overbridges Carried over ... ... Rs.	.....	13,16,515 1 11	
Carried over ... Rs.	...	...	5,06,513 12 10

Appendix No. 9—*continued.*

Particulars.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward ... Rs.	.....	.....	6,06,513 12 10
B.—Roads & Overbridges ... do ... Rs	.....	13,16,515 1 11	.....
Advances from Surplus Loan and other balances brought forward ... ... Rs.	*Cr.* 6,24,048 1 10		
Acquisition of land at Hamalwadi ... ... Rs.	*Cr.* 38,430 0 10		
Construction of a road from Mount Road through Rose Cottage Lane to Matharpakhadi	4,720 6 2		
Widening and extending Nesbit Road	27,817 10 7		
Widening Worli Road from its junction with Haines and Ferguson Roads to the Worli Channel	28,806 11 11		
Acquisition of a plot of land at Ormiston Road from the Bombay Electric Supply and Tramways Co., Ltd., for a Metal Depôt	*Cr.* 1,49,492 8 0		
Widening of Queen's Road from the Church Gate Railway Station to Wodehouse Bridge	*Cr.* 37,944 9 0	*Cr.* 7,88,571 7 0	
B.—Roads & Overbridges—Total Rs.			5,27,943 10 11
C.—DRAINAGE—			
24½ LAKHS LOAN—			
Completion of house drainage connections in different parts of the City	15,439 4 4		
Difference in the cost of the works proposed by Mr. Santo Crimp in connection with the drainage of the lower parts of the City	12 4 0	15,451 8 4	
2ND 24½ LAKHS LOAN—			
Construction of a New Outfall at Love Grove	1,75,634 14 7		
Sewerage of the Elphinstone Reclamation	2,471 8 6	1,78,106 7 1	
55 LAKHS LOAN—			
Provision of Ejectors in the Colaba Sub-District	1,868 13 10		
Measures for relieving the surcharging of sewers	12,605 10 1		
Extension of Low Level Channel No. 2 from DeLisle Road to Dadar Road	3,891 9 0	18,366 0 11	
43 LAKHS LOAN—			
Construction of a storm-water drain from the foot of Byculla Bridge to the junction of Connaught and Reay Roads ...	3,14,019 3 9		
Construction of a storm-water drain in Soparibagh Road ...	2,12,956 7 6		
Construction of a new drainage outfall at Love Grove ...	2,53,817 4 11		
Construction of a storm-water drain from the junction of Connaught and Reay Roads to Kala Chowki and Soparibagh Roads	6,94,299 9 6	14,75,092 9 8	
SAVINGS ON DIFFERENT LOANS—			
Completion of House drainage connections in different parts of the City	20,704 8 11		
Giving Street Connections to storm-water drains in the City	5,783 6 5		
Surface drainage of Dadar and Naigaum Roads	16,381 6 2		
Providing fair weather cast-iron covers and frames for water entrances in A Ward	5,118 8 2		
Subsidiary works at the Love Grove New Pumping Station in connection with the measures for relieving the surcharging of sewers	88,379 10 6		
Laying a 15" pipe sewer from the Wellington fountain to the head manhole of the Mint Road ovoid sewer	26,767 6 10	1,63,274 14 6	
ADVANCES FROM SURPLUS BALANCES—			
Subsidiary works at the Love Grove New Pumping Station in connection with the measures for relieving surcharging of sewers	*Cr.* 75,041 0 7		
Additions to and enlargement of existing sewers in connection with the duplication of Tansa main	3,41,024 0 8		
Sewerage of the north of the Island	55 6 0		
Construction of a storm-water drain from the junction of Connaught and Reay Roads to Kalachowki and Soparibagh Roads	*Cr.* 6,65,389 10 10		
Laying a 15" pipe sewer from the Wellington Fountain to the head manhole of the Mint Road ovoid sewer	*Cr.* 25,767 2 3		
Construction of a storm-water drain from the foot of Byculla Bridge to the junction of Connaught and Reay Roads ...	*Cr.* 3,14,019 3 9		
Construction of a storm-water drain in Soparibagh Road ...	*Cr.* 2,12,414 13 2		
		Cr. 9,51,851 8 4	
C—Drainage—Total Rs. ...			8,28,740 0 2
Carried over ... Rs.			19,33,197 7 11

Appendix No. 9—*concluded.*

Particulars.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			19,33,197 7 11
D.—WATER WORKS—			
24½ LAKHS LOAN—			
9″ and 10″ pipes from Grant Road to Kamatipura		*Cr.* 90 10 2	
12½ LAKHS LOAN—			
Removing and relaying the 32″ Vehar main south of Coorla,	*Cr.* 40,430 0 0		
Replacement of the Vehar main for the whole distance between Vehar and Coorla, north of Coorla...	2,073 6 0		
		Cr. 38,356 10 0	
70 LAKHS LOAN—			
Tansa Reduplication and Auxiliary Works—			
Duplicating Syphons Nos. 1 to 7	2,21,608 9 10		
Do. Syphon No. 8	3,41,195 0 6		
Raising Tansa Dam	49,145 10 1		
General expenses	*Cr.* 49,203 7 2		
		5,62,745 18 3	
43 LAKHS LOAN—			
Laying a 5″ service main in Sandhurst Road	37,239 14 8		
Laying a 14″ main in Parel Road north of Grant Road ...	19,010 8 3		
Substitution of an electrically driven Turbine pump for plunger pumps and construction of a water tower on the Malabar Hill Reservoir	41,047 3 10		
		97,297 10 9	
SAVINGS ON DIFFERENT LOANS—			
Fixing Deacon's meters on the distributing mains	20,445 4 8		
Tansa Reduplication and Auxiliary Works—			
Distributing mains in the City	2,36,572 4 10		
		2,57,017 9 6	
ADVANCES FROM SURPLUS BALANCES—			
Fixing Deacon's meters on the distributing mains	*Cr.* 20,445 4 8		
Removing and relaying the 32″ Vehar main south of Coorla	39,821 8 4		
Laying a 5″ service main in Sandhurst Road	*Cr.* 33,768 14 2		
Substitution of an electrically driven Turbine pump for Plunger pumps and construction of a water tower on the Malabar Hill Reservoir	*Cr.* 34,687 14 7		
Laying a 14″ main in Parel Road north of Grant Road ...	*Cr.* 18,509 4 8		
Constructing a screening tower at Vehar Lake	20,102 9 7		
Tansa Reduplication and Auxiliary Works—			
General Expenses...	64,278 1 6		
Reservoir at Ghatkoper	4,031 8 0		
		20,822 5 4	
D—Water Works—Total Rs. ...			8,99,486 2 8
E.—CEMETERIES—			
55 LAKHS LOAN—			
Providing a Burial ground for Mahomedans in F and G Wards at Antop Hill, Matunga		104 4 1	
E—Cemeteries Total Rs. ...			104 4 1
G.—MISCELLANEOUS—			
19½ LAKHS LOAN—			
Purchase of Government land for the site of the Nusserwanji Maneckji Petit Public Hall		690 10 8	
43 LAKHS LOAN—			
Filling in Gowalia Tank and making roads, &c., thereon ...		1,46,967 11 10	
ADVANCES FROM SURPLUS BALANCES—			
Filling in Gowalia Tank and making roads, &c., thereon ...	*Cr.* 1,47,311 9 5		
Laying out a new park at the site of the old Bhatia Baug ...	21,455 5 0		
		Cr. 1,25,856 4 5	
G—Miscellaneous—Total Rs.			23,802 2 1
Loan Works, Grand Total Rs.			28,56,540 0 9

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner.

Appendix No. 9-A.

STATEMENT of Expenditure on Plague Operations for 1915-1916 contrasted with the figures for 1914-1915.

Particulars.	Actual Expenditure for 1914-15.	Actual Expenditure for 1915-16.
	Rs. a. p.	Rs. a. p.
Free Medical Relief—		
Hospitals—		
Maratha Hospital	23,027 7 8	20,656 0 10
Maintenance of Camps	6,503 9 0	7,439 9 7
Net Municipal Contribution to Private Health Camps, &c.	3,618 4 10	1,920 13 2
Fees for notification of plague cases	495 0 0	131 0 0
General supervision	13,915 6 5	15,145 0 7
Disinfection	27,176 8 4	21,752 7 8
Registration	10,549 14 5	10,899 6 7
Rat destruction	42,496 5 5	45,360 3 5
Inoculation	112 11 4	75 11 0
Discretional Relief	388 2 0	243 14 6
	1,28,278 5 5	1,28,631 3 4
Less—Miscellaneous Receipts on account of ground-rent, &c.	—644 15 10	—719 10 2
Total... Rs.	1,27,633 5 7	1,22,911 9 2

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner.

Appendix

STATEMENT showing the Liabilities and Assets

Liabilities.			Amount.	Total.	Grand Total.
I.—Debt.			Rs.	Rs.	Rs. a. p.
Due to Government—					
Vehar Debt					21,92,274 15 9
Due to the Public—		Original.	Repaid.	Balance.	
5 per cent. Loans.		Rs.			
Drainage Loan of 1878		26,94,000	22,31,000	4,63,000	
Sanitary Works Loan of 1885-86		44,00,000	6,61,000	37,39,000	
Sanitary Works Loan of 1888		7,00,000	.....	7,00,000	
12 Lakhs Drainage and Water Works Loan		12,00,000	.....	12,00,000	
Rs. 10,08,500 Miscellaneous Works Loan		10,08,500	.....	10,08,500	
Rs. 2,48,000 Agripada House Sullage Water Connection Loan ...		2,48,000	.....	2,48,000	
35 Lakhs Various Sanitary Works Loan		35,00,000	.....	35,00,000	
147 Lakhs Tansa Water Works Loans		1,47,00,000	.....	1,47,00,000	
8 Lakhs Municipal Office Building Loan		8,00,000	.....	8,00,000	
Total 5 per cent. Loans ...		2,32,50,500	28,92,000	2,03,58,500	
4 per cent. Loans.					
4½ Lakhs Loan for Fire Brigade Quarters and Stations		4,50,000	.....	4,50,000	
42 Lakhs Loan for Repayment of Balance of Government Consolidated Loan		42,00,000	.....	42,00,000	
23¼ Lakhs Loan for the construction of Drainage, Water Works and other Works		23,25,000	.....	23,25,000	
15¾ Lakhs Loan for the construction of Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works (2nd Instalment)		5,75,000	.....	5,75,000	
25 Lakhs Loan for Sewerage, Water and other Sanitary Works ...		25,00,000	.....	25,00,000	
19¼ Lakhs Loan for Sewerage, Roads and other Sanitary Works ...		19,25,000	.....	19,25,000	
20 Lakhs Loan for Plague Expenses		20,00,000	.....	20,00,000	
24¾ Lakhs Loan for Sewerage and Water Works		24,75,000	.....	24,75,000	
12¾ Lakhs Loan for certain Water Works...		12,75,000	.....	12,75,000	
Second 24¾ Lakhs Loan for certain Sewerage Works		24,75,000	.....	24,75,000	
13½ Lakhs Loan for the construction of Quarters for Halalkhores and Beggaries		13,50,000	.....	13,50,000	
15 Lakhs Loan for Street Improvements...		15,00,000	.....	15,00,000	
30 Lakhs Loan for the construction of Overbridges in the City ...		30,00,000	.....	30,00,000	
55 Lakhs Loan for Miscellaneous Works		55,00,000	.....	55,00,000	
70 Lakhs Loan for Tansa Reduplication and Auxiliary Works (1st Instalment of 29 Lakhs and 2nd Instalment of 41 Lakhs)		70,00,000	.....	70,00,000	
20 Lakhs Loan for Street Improvements (1st Instalment of 6 Lakhs and 2nd Instalment of 14 Lakhs)		20,00,000	.....	20,00,000	
43 Lakhs Loan for Miscellaneous Works		43,00,000	.....	43,00,000	
Total 4 per cent. Loans ...		4,48,50,000	.....	4,48,50,000	
Debt due to the Public—Carried over ... Rs. ...		7,41,00,500	28,92,000	7,12,08,500	
Do. Govt. — do.		.....	.....	.....	21,92,274 15 9

No. 10.

of the Bombay Municipality at 31st March 1916.

Assets.	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
I. Cash Balance at 31st March 1916 in the Office and Bank Treasuries—			3,25,997 15 11
II. Advances Recoverable—			
a. Cash advanced to Municipal Officers		33,052 15 4	
b. Inter-departmental Charges—			
Workshops (Private and Departmental Works)	47,559 10 7		
Engineer's Department (Private Works)	22,094 11 3		
Engineer's Department (Departmental Works)	16,187 8 1		
		85,841 13 11	
c. Advances to Contractors		118 9 11	
d. Miscellaneous		2,20,298 9 7	
e. New Works to be subsequently provided for under a new loan to be raised, *vide* Appendix No. 6 C		2,29,115 1 0	
f. Advances to the Chief Auditor and Accountant, B. B. & C. I. Railway		8,304 0 0	
			5,82,711 1 9

III. Investments—	Face value.	Actual cost.	Deposits—Cash, Current Account & Fixed Deposits.		
a. **Surplus Funds Deposits—Paper.**					
	Rs. a. p.	Rs. a. p.	Rs. a. p.		
4 per cent. Port Trust Bonds	1,000 0 0	1,028 0 8			
4 per cent. Municipal Debentures	11,87,000 0 0	11,87,000 0 0			
5 per cent. Municipal Debentures	7,500 0 0	7,500 0 0			
3½ per cent. Government Paper	12,36,000 0 0	12,35,371 14 0			
3 per cent. Government Paper	.....	.....			
Total ...	24,31,500 0 0	24,30,899 14 0	38,44,724 12 0	62,75,616 10 0	62,75,616 10 0
b. **Loan Funds—**					
3½ per cent. Government Paper	.....	.....			
Total Loan Funds ...	.....	.....	34,94,228 15 1	34,94,228 15 1	(*a*) 34,94,228 15 1
c. **Sinking Funds—**			Cash Deposits.		
5 per cent. Municipal Loans—					
5 per cent. Municipal Debentures	36,41,000 0 0	36,41,000 0 0			
4 per cent. Municipal Debentures	25,73,000 0 0	25,73,000 0 0			
4 per cent. Bombay Improvement Trust Debentures	9,76,500 0 0	9,76,500 0 0			
4 per cent. Bombay Port Trust Bonds ...	2,20,500 0 0	2,20,500 0 0			
4 per cent. Sterling Bombay Improvement Trust Bonds	£25,000 0 0	3,75,000 0 0			
Total ..	74,11,000 0 0	77,86,000 0 0	191 5 4	77,86,191 5 4	
	£25,000 0 0	.....			
4 per cent. Municipal Loans—(3½ per cent. Basis)—					
4 per cent. Municipal Debentures	27,62,500 0 0	27,62,316 6 9			
4 per cent. Bombay Improvement Trust Debentures	23,54,000 0 0	23,54,051 11 3			
3½ per cent. Government Paper	18,76,300 0 0	18,76,300 0 0			
4 per cent. Bombay Port Trust Bonds ...	1,32,500 0 0	1,32,500 0 0			
Total ..	71,25,300 0 0	71,25,168 2 0	171 0 0	71,25,339 2 0	
4 per cent. Municipal Loans—(3 per cent. Basis)—					
3½ per cent. Government Paper	1,30,000 0 0	1,30,000 0 0			
3 per cent. Government Paper	5,00,000 0 0	5,00,000 0 0			
4 per cent. Bombay Improvement Trust Debentures	1,03,000 0 0	1,03,000 0 0			
4 per cent. Municipal Debentures	3,48,000 0 0	3,48,000 0 0			
4 per cent. Bombay Port Trust Bonds ..	1,99,000 0 0	1,99,000 0 0			
Total ...	12,80,000 0 0	12,80,000 0 0	176 5 4	12,80,176 5 4	
3½ per cent. Loans—					
4 per cent. Municipal Debentures	53,000 0 0	53,000 0 0			
4 per cent. Bombay Improvement Trust Debentures	41,500 0 0	41,500 0 0			
3½ per cent. Government Paper	2,21,300 0 0	2,18,501 9 0			
Total ...	3,15,800 0 0	3,13,001 9 0	172 2 4	3,13,173 11 4	
	1,81,32,100 0 0	1,65,04,369 11 0	710 13 0	1,65,04,880 8 0	(*b*) 1,65,04,880 8 0
Total Sinking Funds ...	£25,000 0 0	.....	.....	.....	
d. **Special Funds—**					
MUNICIPAL FIRE AND ACCIDENT INSURANCE FUND.					
5 per cent. Municipal Debentures	11,000 0 0	11,000 0 0			
4 per cent. Municipal Debentures . ..	10,000 0 0	9850 0 0			
4 per cent. Port Trust Bonds	.....	.....			
3½ per cent. Government Paper	1,96,000 0 0	1,95,893 2 0			
Total ...	2,17,000 0 0	2,16,743 2 0	235 1 2	2,16,978 3 2	
Special Funds carried over Rs....	2,17,000 0 0	2,16,743 2 0	235 1 2	2,16,978 3 2	
Carried over Rupees ...	.....	.....	.....	.....	2,62,74,726 1 1
					9,08,709 1 8

(*a*) Of this Rs. 25,521-13-3 belong to the Water Works Account. (*b*) Of this Rs. 60,88,694-9-9 belong to the Water Works Account.

Appendix

LIABILITIES AND ASSETS of the Bombay

Liabilities.		Amount.	Total.	GRAND TOTAL.
		Rs.	Rs.	Rs. a. p.
Debt due to Govt. Brought forward		.....	.....	21,92,274 15 9
	Original. Rs.	Repaid.	Balance.	
Do. to the Public. Brought forward	7,41,00,500	28,92,000	7,12,08,500	
3½ % *Loan.*				
15¾ Lakhs Loan for the construction of Sewerage, Wari Bunder, &c., Roads, Burial Grounds and certain Water Works (*1st* Instalment)	10,00,000	.....	10,00,000	
Total 5 %, 4 per cent. and 3½ per cent. Loans...	7,51,00,500	28,92,000	7,22,08,500	
Total Debt due to the Public Rs. ...				7,22,08,500 0 0
II.—Deposits				
Cash Deposits from Contractors and private parties			6,04,214 6 0	
Government, &c., Paper Deposits from Contractors, &c.			3,81,700 0 0	
Deposits held in Trust from private parties on account of Public monuments, &c.			38,100 0 0	
Government of Bombay on account of sundry Taxes, &c.			5,200 1 1	
Miscellaneous Receipts, Stores Department Supervision charges on Stores sold ...		928 10 7		
Profit on sale of Stores		9,455 10 6	10,384 5 1	10,39,598 12 2
III.—Purchases (Stores)			34,471 14 2	
Stock Adjustment Account			2,011 4 1	36,483 2 3
IV.—Loan Works Establishment				17,869 15 8
V.—Cheques Payable				94,269 4 1
VI.—Renewed Grants to be renewed in 1916-17 for unpaid charges for 1915-16 and previous years (as per appendix No. 6)				9,98,761 8 11
VII.—Amount reserved for payment to the C. I. Trust on account of contribution from revenues earmarked for the purpose during the year				11,01,288 9 0
VII.—Book value of Municipal Lands at Agripada, &c., transferred to the Improvement Trust				17,15,289 6 11
				7,94,04,335 9 9
IX.—Sinking Funds on Municipal Loans (invested as per contra)				1,65,04,880 8 0
X.—Special Funds :—				
Municipal Fire and Accident Insurance Fund (invested as per contra)			2,16,978 3 2	
Watermont Water Mains Renewal Fund (Do.)			5,69,485 15 5	
Net Premia Fund (Do.)			1,34,164 10 7	
				9,20,628 13 2
XI.—Revenue Account.—Surplus Cash Balance				46,59,288 15 9
XII.—Capital Account.—General Reserve being Assets in excess of Liabilities				1,14,19,987 6 10
Total Rs. ...				11,29,09,121 5 6

W. E. WAITE,
Chief Accountant.

No. 10—*concluded.*

Municipality at 31st March 1916.

Assets.	Face value.	Actual cost.	Cash deposits.	Amount.	Total.	Grand Total.
				Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward ...					2,62,74,726 1 1	9,08,709 1 8
	Rs. a. p.	Rs. a. p.	Rs. a. p.			
Special Funds Brought over	2,17,000 0 0	2,16,743 2 0	235 1 2	2,16,978 3 2		
Worn-out Water Mains Renewal Fund—						
5 per cent. Municipal Debentures... ...	1,000 0 0	1,000 0 0				
4 per cent. Municipal Debentures... ...	.....	.....				
4 per cent. Port Trust Bonds	.....	.....				
3½ per cent. Government Paper	5,69,000 0 0	5,68,168 7 0				
Total ...	5,70,000 0 0	5,69,168 7 0	317 8 5	5,69,485 15 5		
Net Premia Fund—						
5 per cent. Municipal Debentures ...	.....	.....				
4 per cent. Port Trust Bonds	.....	.....				
3½ per cent. Government Paper	1,35,000 0 0	1,33,880 10 0				
Total ...	1,35,000 0 0	1,33,880 10 0	284 0 7	(a) 1,34,164 10 7		
Total Special Funds ...	9,22,000 0 0	9,19,792 5 0	836 10 2	9,20,628 13 2	9,20,628 13 2	
			Rs. a. p.		2,71,95,354 14 3	
e. Contractors', &c., Paper Deposits			.....	3,41,300 0 0		
f. Bank of Bombay on account of Public monuments, &c.—						
(1) Paper Deposit on account of Sir Mangaldas Nathoobhai's Clock ...			500 0 0			
(2) Maintenance of Cassumali Jairazbhai Firbhoy's fountain at the Junction of Hornby Road and Palton Road...			5,000 0 0			
(3) Maintenance of J. N. Tata's Memorial			1,200 0 0			
(4) Maintenance of a Charitable Dispensary at Kamatipura opened by Rao Bahadur Ellapa Balaram			19,500 0 0			
(5) Maintenance of the Ranade Memorial			1,200 0 0			
(6) Maintenance of a Charitable Dispensary at Kamatipura opened in the name of the late Mr. Rajana Jalooji			10,700 0 0	38,100 0 0	3,79,400 0 0	2,75,754 14 3
IV. Reserve Stock—						
Serviceable Stores—						
Stock				2,54,806 1 11		
Water Works Imprest				3,572 9 0		
					2,58,378 10 11	
Line suspense account					90,613 6 2	
Executive Engineer (General)					597 12 9	
					3,49,589 13 10	
Surplus and obsolete stores					4,581 7 8	
						3,54,171 5 6
Sales Stores						29,663 2 8
V. Loan Works—Construction—						
a. Buildings and Sanitary Structures				78,82,907 13 0		
b. Roads and Bridges				91,18,698 13 7		
c. Drainage (including Buildings)				2,09,69,815 14 10		
d. Water Works (Do.)				3,77,47,944 12 1		
e. Cemeteries (Burning and Burial Grounds)				7,35,467 2 4		
f. Disposal of Town Sweepings				10,81,108 6 1		
g. Miscellaneous				2,51,359 13 8		
					7,77,33,697 11 7	
					45,37,835 11 11	
VI. Unbooked Property					823-26,533 7 6	
VII. Other Property—					17,15,289 5 11	
Lands transferred to Bombay Improvement Trust						8,40,41,822 13 5
Total Rs. ...						11,29,09,191 5 6

(a) Of this Rs. 56,977-11-1 belong to the Water Works Account.

S. M. EDWARDES,
Municipal Commissioner.

Appendix No. 10-A.

SCHEDULE of New Works, &c., carried out from Loan and Special Funds up to 31st March 1916.

	Amount.	Total.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—BUILDINGS AND SANITARY STRUCTURES—			
Bandora Slaughter Houses	2,34,297 12 8		
Workshop and Store Shed	1,49,079 7 1		
Girgaum Police Court (Share of)	34,000 0 0		
Null Bazar Market	1,50,770 1 7		
Fort Market	22,066 7 11		
Arthur Crawford Market	11,39,410 11 6		
		17,29,624 8 9	
44 Lakhs Sanitary Works Loan—			
Enlargement of Dhobi Lines at Mahaluxmi	28,499 12 3		
Chawl for Gowlies working at the Agripada Milch-Cattle Stables	6,129 13 6		
Health Department Stables at Bori Bunder	43,677 13 3		
Establishment Charges for the above three Works	8,803 2 6		
		87,110 9 6	
10,08,500 Miscellaneous Works Loan—			
Market at Colaba	(a) 44,303 15 11		
Extension of Erskine Road Market	(b) 3,39,758 0 0		
Extension of the Arthur Crawford Mutton Market	42,754 2 9		
		4,86,906 2 8	
35 Lakhs Various Sanitary Works Loan—			
Health Department Bullock Stables and Quarters for Scavengers	1,23,897 4 11		
Bhuleshwar Market Extension	3,22,817 1 11		
Labourers' Quarters in connection with the Arthur Crawford Market	9,518 14 3		
Foras Road Market	40,499 14 11		
Chawl for Halalkhores in Cursetji Suklaji Street	88,460 8 2		
		5,85,193 12 2	
8 Lakhs Loan and Special Investment Fund—			
Municipal Office Buildings		(c) 14,67,386 11 3	
4½ Lakhs Fire Brigade Loan—			
Land and Buildings for Fire Brigade		4,03,320 6 1	
18½ Lakhs Various Sanitary Buildings Loan—			
Construction of Chawls, &c., for Halalkhores at Valpakhadi (Mazagaon) Rs. 1,81,200-4-1	2,31,200 4 1		
Additional land for do. do. Rs. 50,000-0-0			
Construction of semi-permanent huts for Biggaries at Arthur Road	28,379 0 10		
Construction of chawls for Halalkhores, &c., at Cochin Street, Fort	56,554 5 6		
Construction of stables for the Health Department on the Grant Road Hospital site	47,334 4 7		
Construction of the Sankli Tank Bullock Hospital with residential quarters for Inspector and Shalotri	1,34,428 6 6		
Construction of a stable for Bullocks of Night Branch and an office at Arthur Road	64,655 2 4		
Construction of stables and chawls for B Ward at Jail Road, North	1,65,522 11 4		
Construction of stables and chawls for D Ward Bullocks and Biggaries at Annesley Road	1,36,435 10 3		
Construction of chawls for Biggaries at Arthur Road	1,22,312 3 9		
Construction of a stable for E Ward, West of Kamatipura	62,282 15 4		
Construction of chawls for Halalkhores at Tardeo Flats	99,406 7 9		
Construction of a stable for Bullocks at Mahim	81 9 0		
		11,48,543 1 3	
55 Lakhs Loan—			
Construction of additional quarters for the Fire Brigade Staff at Byculla Fire Brigade Station	30,995 8 8		
Construction of an Engine House and Foreman's quarters at the Sankli Tank Fire Brigade Station	26,552 13 0		
Construction of shops on the Western and Southern sites at the Arthur Crawford Markets, Hornby Road	4822 7 10		
55 Lakhs Loan, carried over ... Rs.	62,370 13 6		
A.—Buildings and Sanitary structures carried over Rs. ...		59,68,085 3 8	

(a) Exclusive of Rs. 21,940 paid out of the Premia received on the Loan, and Rs. 28,060 paid out of savings on different Loans.

(b) Exclusive of Rs. 31,908-11-11 paid out of the Premia received on the Loan.

(c) Inclusive of Rs. 7,34,326-3-3 paid out of the Invested Fund.

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—Buildings and Sanitary Structures—*contd.* and brought forward ... Rs.		59,08,085 3 8	
55 Lakhs Loan—*contd.* and brought forward ... ... Rs.	62,370 13 6		
Building a new office in Sankli Street for the use of the Assessment Department, E Ward Office, and constructing a Ward Office, Chowkidars' quarters and Store Room for the Streets and Buildings Branch, E Ward, in Sankli Street...	22,871 7 10		
Building a new office at Dadar for the use of the Assessment Department, F and G Ward Offices, and converting the existing Ward Office into a godown and providing latrines for the workmen	13,419 6 9		
Constructing additional rooms and adding a storey over several Fire Brigade Stations to provide accommodation for additional staff ...	12,437 5 7		
Renewing the two blocks of the Butcher's Chawl at the Bandora Slaughter Houses	22,020 5 4		
Construction of A Ward Offices for the different branches of the Engineer's Department at Mint Road	20,856 6 6		
Acquisition of land and properties at Jail Road, North, for the construction of stables and chawls for the Health Department	1,92,581 0 0		
Purchases of about 4,036 square yards of land at the junction of Bapty Road and Falkland Road belonging to the Tramway authorities ...	1,22,728 6 0		
Construction of buildings for Primary Schools	*2,37,061 3 3		
Making alterations in the three permanent Wards of the Arthur Road Hospital, and in gas and other lighting arrangements in the Compound, Wards, &c., in the Arthur Road Hospital	21,955 10 9		
Construction of a Fire Brigade Station at Elphinstone Bridge Road ...	62,608 13 5		
Construction of two additional chawls for Biggaries at Chembur	17,122 12 10		
Construction of 25 bathing places in the City	27,747 6 2		
		8,35,781 1 11	
43 *Lakhs Loan*—			
Construction of new Municipal Workshops at Foras Road	3,66,314 10 3		
Construction of Incinerators for Refuse destruction	71 7 7		
Construction of new Ward Offices at Babula Tank for the Assessment and Health Departments	48 6 0		
		3,66,434 7 10	
Executed out of Savings on different Loans—			
Providing living and other accommodation at the Gowalia Tank Road, Babula Tank, Chinchpokli and Sankli Tank Fire Brigade Stations ...	12,527 2 2		
Constructing Lascars' quarters, &c., at Gowalia Tank Fire Brigade Station.	8,983 1 10		
Latrines at Colaba	20,290 13 10		
Constructing new quarters for an Engineer and 10 Lascars at Sankli Tank Fire Brigade Station	13,537 13 11		
Portion of cost of site for the Colaba Market	28,060 0 0		
Currey Road Market	15,252 5 10		
Market at Chowpati	63 0 0		
Health Department Stables in F & G Wards	68,120 8 2		
Market at Elphinstone Road	15,242 13 8		
Construction of a Cook-room in connection with the existing Engineer's quarters and two nahanis in connection with the Lascars' quarters at Sankli Tank Fire Brigade Station	1,882 10 3		
Health Department Biggaries' chawl at Bori Bunder	50,058 0 7		
Constructing a chawl of 52 rooms at the Bandora Slaughter Houses ...	31,240 0 8		
Providing latrines and urinals at different places	58,900 15 6		
Providing accommodation, &c., for the General Stores	38,253 5 5		
Acquisition of land at Colaba as a site for quarters for Halalkhores ...	4,812 15 5		
Providing wooden racks in Block No. 2 of the Central Stores Building at Chinchpokli	2,495 5 4		
Market at Kamatipura	50,644 11 2		
Constructing office quarters and store-room for S. and B. Branch in G Ward at DeLisle Road on the site of Foras Tank...	19,991 11 9		
Construction of an additional storey over the Bhuleshwar Fire Brigade Station	6,902 12 3		
Construction of 11 urinals on Port Trust ground near the Docks ...	6,502 13 2		
Construction of semi-permanent quarters for Halalkhores on the Foras Tank site	2,229 10 1		
		4,54,392 14 0	
Advances from Surplus Balances—			
Acquisition of land for a new Fire Brigade Station for the Fort District.	95,600 0 0		
Acquisition of a plot of land at Ormiston Road from the B. E. S. & Tramways Company, Limited, for a Metal Depôt	1,49,492 8 0		
Acquisition of land for a Stone Depôt on Golanji Hill	71,084 1 7		
Providing bungalows for Engineers and quarters for servants and Engine Drivers at Love Grove Pumping Station...	1,437 8 0		
		3,17,614 1 7	
Total for A Rs. ...			78,82,307 13 0
Carried over Rs. ...			78,82,307 13 0

* Exclusive of Rs. 2 Lakhs paid by Government as part contribution.

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
B.—Roads and Bridges— Brought forward Rs. ...			78,82,307 13 0
Overbridges	1,97,563 0 1		
Foras Road	1,12,418 14 10		
Nowroji Hill Road	67,913 3 0		
44 Lakhs Sanitary Works Loan—			
Road from Bellasis Road across Old Race Course (including Establishment Charges)		3,67,895 1 11	
10,08,500 *Miscellaneous Works Loan—*		1,41,500 1 2	
Cross Road at Mahaluxmi Station from Clerk Road to Haines Road ...	19,594 4 8		
Road through Nowroji Hill from Elphinstone Bridge to Dongri Street ...	70,089 2 0		
35 Lakhs Various Sanitary Works Loan—		89,683 6 8	
Roads and Streets in Agripada and elsewhere	14,67,006 2 10		
New Road from Jakeria Bunder Road to Sewri Cemetery	24,217 15 11		
23½ Lakhs Loan—		14,91,224 2 9	
Falkland Road Bridge	15,082 9 4		
Wari Bunder Bridge	1,32,652 0 0		
15¾ Lakhs Loan—		1,47,734 9 4	
Wari Bunder Road...	*4,74,317 4 6		
Victoria Road Extension	30,895 10 4		
15 Lakhs Loan—		5,05,212 14 10	
Street Improvement in different places...		15,00,000 0 0	
30 Lakhs Loan—			
Overbridge at Elphinstone Road, B. B. & C. I. P. Railways...	2,57,163 14 1		
Do. at Arthur Road, G. I. P. Railway...	1,96,754 4 7		
Do. at Currey Road, G. I. P. Railway	5,37,445 14 2		
Do. at Clerk Road, G. I. P. Railway	2,91,585 15 5		
Do. at do. B. B. & C. I. Railway	67,529 5 0		
Do. at DeLisle Road	6,75,311 0 3		
Establishment, &c., Charges	58,840 14 11		
55 Lakhs Loan—		20,84,231 4 5	
Construction of a new road through Cavel from Girgaum Road to Kalbadevi Road up to the Church of Lady of Health	1,32,943 9 11		
Widening of Cruickshank Road and improvement of the corner of Cruickshank and Elphinstone Roads	40,317 10 9		
20 Lakhs Loan—		1,73,261 4 8	
Street Improvements in different places		16,56,502 10 4	
43 Lakhs Loan—			
Construction of a Road from the B. B. & C. I. Railway Matunga Station westward to Mahim including storm-water drains	1,85,287 5 3		
Construction of a 60 feet road along Tulsi Pipe Line from DeLisle Road to Dadar Road including storm-water drains, and other roads	5,690 1 8		
Widening of Queen's Road from the Church Gate Railway Station to Wodehouse Bridge	37,944 9 0		
Executed out of Savings on different Loans—		2,28,921 15 11	
Providing and fixing new pattern hydrants for watering and Fire Brigade purposes	50,000 0 0		
Diversion of Arthur Road over the masonry culvert	16,266 11 1		
Street Improvements in different places	2,40,000 0 0		
Construction of a road running eastwards from Lady Hardinge Road to the G. I. P. Railway new level crossing at Matunga and providing storm-water drain thereat	13,425 15 7		
Widening and improving Cumballa Hotel Lane and Gowalia Tank Road (Municipal Contribution)	23,948 5 4		
Acquisition of land at—			
Different places as sites for new roads	9,564 15 0		
Dadar...	151 0 0		
387·11 square yards of land from Mr. Sharifbhai Thavar for the construction of the road from Haines Road to Ripon Road	2,205 14 7		
Maruti Lane	5,483 0 0		
Gola Lane	7,638 7 0		
242·22 square yards near the Parel Station of the B. B. & C. I. Railway.	1,695 8 8		
King Lane	13,439 8 2		
Fergusson Road passage	1,301 7 7		
Hamalwadi	38,430 0 10		
		4,22,900 13 11	
B.—Roads and Bridges, carried over Rs. ...		88,08,068 5 11	
		Carried over Rs. ...	78,82,307 13 0

* Including Rs. 1,56,500 contributed by the Port Trust.

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			78,32,307 13 0
B.—Roads and Bridges, &c.—*contd.* and brought forward ... ... Rs.		88,08,068 5 11	
Advances from Surplus Balances—			
Widening and extending Nesbit Road	27,817 10 7		
Acquisition of land at Hamalwadi	19,709 12 9		
Do. do. at Piru Lane	64,508 3 11		
Do. do. at Goga Street	20,920 13 5		
Do. do. at the Junction of Gun Carriage Street and Thomas Street	4,357 0 0		
Do. do. at Nishanpada Road	610 15 3		
Do. do. at Chunam Kiln Cross Lane	573 13 5		
Do. do. at Old Nagpada Street	1,917 3 11		
Widening of Worli Road from its junction with Haines and Fergusson Roads to the Worli Channel	68,994 8 1		
Construction of a road from Monnt Road through Ross Cottage Lane to Matharpakhadi...	32,470 14 4		
		2,41,780 15 8	
Met out of the Nesbit Road Invested Fund—			
Nesbit Road Bridge (portion of Cost)		49,844 8 0	
Met out of the Road Improvement Fund—			
Spent on Special Street Improvements		19,000 0 0	
Total for B			91,18,693 13 7
C.—Drainage Works—			
Fort Sewers	78,627 4 8		
Kamatipura Drain	1,91,047 8 10		
Drains in Fanaswadi and Agiary Lane	1,852 12 3		
Branch Sewers, Bellasis Road	7,108 6 1		
		2,78,635 15 10	
Surface Drainage Works executed out of the 6 Lakhs included in the Government Consolidated Loan and Rs. 8,12,000 included in the 11 Lakhs Loan—			
Widening Love Grove Sluices	1,57,326 7 7		
Culverts under the B. B. & C. I. Railway near Bellasis Road	1,791 0 8		
Khetwadi Survey	5,599 10 0		
Raising Level of Khetwadi Roads	28,355 0 1		
Raising private compounds in Khetwadi	25,336 2 1		
Three branch drains in Khetwadi and storm-water entrances ...	31,711 15 6		
Intercepting drain in Tardeo District and storm-water entrances ...	1,69,851 10 4		
Making connection between low-level sewers and new main drains ...	2,610 8 10		
Intercepting drain from Pydhoni to Bellasis Road and storm-water entrances	3,03,229 3 9		
Enlarging old open main drain	71,318 13 5		
Laying a new 24" main and removing old 24" Talsi main	74,226 14 0		
Constructing storage reservoir on the Flats and raising levels of manholes and sewers...	1,86,225 12 6		
Establishment for the above works	1,21,413 0 0		
Contingencies	63,627 6 11		
Cleaning the Worli storm-water drain and widening the channels south of the Love Grove sluices	79,510 9 7		
		13,22,134 3 3	
Drainage Loan of 1878—			
Main sewers...	4,92,691 8 2		
Pipe sewers	3,00,746 13 1		
Outfall sewer	2,55,766 10 0		
Kamatipura drainage	76,471 4 6		
Clerk Road Ovoid sewer	39,259 5 11		
Government Commission charges	5,211 15 9		
Preliminary expenses	13,429 6 5		
Departmental works	1,072 1 3		
Compensation for land	18,831 11 1		
Proportion of repairs to roads (opened for the works)	34,372 14 7		
Miscellaneous charges	22,302 15 7		
Establishment for the above works	1,45,000 0 0		
Contingencies	51,167 7 9		
Repairs to old Main Drain at Falkland Road	2,093 13 5		
		14,58,417 15 6	
C.—Drainage Works, &c., carried over Rs. ...		30,59,188 2 7	
Carried over Rs. ...			1,70,01,001 10 7

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			1,70,01,001 10 7
C.—Drainage Works, &c.—*contd.* and brought forward ... ... Rs.		30,59,188 2 7	
44 *Lakhs Loan*—			
House connections without privy fittings	6,32,080 1 7		
Shaft ventilators	44,947 0 6		
Closing storm-water openings in Frere Road sewer	17,108 9 6		
Queen's Road intercepting sewer	1,53,969 0 0		
House connection survey	4,561 18 3		
House connections, Kamatipura Drainage	34,977 7 5		
Establishment charges	88,369 0 0		
Pipe sewer from Clare Road along south portion of Haines Road and DeLisle Road	1,14,260 0 7		
Pipe sewer from Parel Workshop to Clerk Road Ovoid sewer	65,793 9 11		
Extension of Clerk Road Ovoid sewer to Parel Road	35,569 8 0		
Ovoid sewer across the Old Race-course	59,746 13 2		
Ovoid sewer from the Crawford Market down Hornby Road to Bazar Gate and thence to the Mint	89,401 11 9		
Establishment	36,369 0 0		
		13,77,593 11 8	
7 *Lakhs Sanitary Works Loan*—			
Adjustment of the extra expenditure incurred on the Queen's Road intercepting sewer	9,633 10 8		
Fort Drainage	8,68,422 5 9		
Establishment charges	39,419 0 0		
New Works at Love Grove Pumping Station...	34,645 9 6		
Construction of a side drain along Wari Bunder Road	4,934 0 1		
Construction of a pipe sewer in certain lanes in Khetwadi	5,282 6 0		
		4,62,337 0 0	
12 *Lakhs Loan*—			
Queen's Road pipe sewer including contingencies	6,09,998 4 2		
Queen's Road house connections	2,85,306 0 9		
Establishment and contingencies	86,132 14 3		
		9,01,437 3 2	
10,98,500 *Miscellaneous Works Loan*—			
Extension of Parel Road storm-water drains from Bellasis Road to Grds the length of Ripon Road	41,106 6 9		
9" Pipe sewer along Bellasis Road, Foras Road and Gilder Street... ...	17,290 8 1		
		58,396 14 10	
2,48,000 *Agripada House Sullage Water Connections Loan*—			
House Sullage Water connections at Agripada		2,83,583 12 10	
85 *Lakhs Various Sanitary Works Loan*—			
Sewer flushing arrangements		13,864 7 3	
23½ *Lakhs Loan*—			
Pumps and steam engine for the working of the Love Grove Pumping Station	4,63,345 8 6		
Sewerage of Colaba	7,56,419 0 0		
Sewerage of Umarkhadi District	3,58,786 5 9		
Storm-water drains in Morehand, Souter, Club and Gilder Streets	79,644 0 2		
Storm-water drains in different places	21,819 11 2		
Storm-water drains in Connaught and Sussex Roads	35,923 15 9		
Miscellaneous extensions and improvements of drains	38,664 6 1		
		17,44,602 15 5	
15¾ *Lakhs Loan*—			
Sewerage of the Mazagon District on gravitation system	3,06,680 0 5		
Sewerage of Malabar and Khumballa Hills on gravitation system	1,41,666 0 1		
Sewerage of Fergusson Road and Chinchpokli District	89,329 8 6		
Raising sewerage in Queen's Road sewer	1,582 0 0		
Sewerage of Old Race-course District on gravitation system	30,039 8 1		
		5,69,077 1 0	
C.—Drainage Works, &c., carried over Rs. ...		84,20,031 4 9	
Carried over Rs. ...			1,70,01,001 10 7

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			1,70,01,001 10 7
C.—Drainage Works, &c.—*contd.*, & brought forward Rs.		84,20,081 4 8	
25 Lakhs Loan—			
Machinery for the sewerage of Parel, the Mazagon, &c., sectional districts.	7,95,520 6 0		
Mazagon District, sectional	8,02,785 4 2		
Storm-water drain from Wellington Fountain *via* Bandstand to the Sea ...	26,778 4 2		
		11,25,083 14 4	
19¼ Lakhs Loan—			
Improvements in the roadside drains along Bhoiwada Cross Road and new side drains along portions of Dadar Road, &c.	29,866 14 11		
Surface drainage of Kamatipura	83,440 9 2		
Storm-water drain in Tardeo Road	1,56,542 11 8		
Low-level Channel from the Tardeo Flats to Worli Point	11,88,726 0 0		
		14,58,566 3 4	
24¾ Lakhs Loan—			
Sewerage of the Fergusson Road and Chinchpokli District on the sectional system	2,56,782 14 6		
Sewerage of the Parel District on the sectional system	4,66,272 3 7		
Completion of house drainage connections in different parts of the City ...	8,49,364 0 9		
Difference in the cost of the works proposed by Mr. Santo Crimp in connection with the drainage of the lower parts of the City	1,44,176 13 9		
		17,16,596 0 7	
Second 24¾ Lakhs Loan—			
(17) Catchpits on pipe sewers	26,994 14 0		
(17) Catchpits on ovoid sewers	43,165 13 4		
Sewerage of the Malabar Hill District—Sectional	6,39,948 0 0		
Construction of a new outfall at Love Grove	9,31,199 0 0		
Sewerage of the Elphinstone Reclamation...	2,05,999 10 11		
		18,47,307 6 3	
56 Lakhs Loan—			
Construction of storm-water drains in Marine Lines, from the northern end of the B. B. & C. I. Ry. Office to the junction of 1st Marine Lines.	18,177 10 10		
Providing an additional Pipe Sewer and Ejector in Fergusson Road near its junction at DeLisle Road (*North*)...	70,071 10 9		
Construction of a storm-water drain in Arthur Road from its junction with Kalachowki Road to Jacob Circle	65,453 14 7		
Extension of Low Level Channel No. 2 from DeLisle Road to Dadar Road	2,83,151 2 7		
Constructing a storm-water drain in Colaba Causeway between Ormiston Street and Thomas Street	8,538 5 0		
Construction of a storm-water drain in DeLisle Road (*North*)	48,396 3 3		
Provision of Ejectors in the Colaba Sub-District	1,08,172 2 10		
Construction of a storm-water drain in DeLisle Road (*South*)	15,257 13 8		
Extending the existing storm-water drain and constructing water gullies and water tables in Mazagon Road	4,921 11 1		
Constructing a storm-water drain in New Purbhadevi Road	39,746 5 0		
Constructing storm-water drains in Khetwadi Back Road	26,650 3 11		
Constructing a storm-water drain in Queen's Road from Wodehouse Road Bridge to Bandstand	11,086 9 4		
Constructing a storm-water drain in Mayo Road from Queen's Statue to Church Gate Street	9,192 11 8		
Constructing a storm-water drain in DeLisle Road, north of Arthur Road.	44,502 3 0		
Constructing a storm-water drain in Mayo Road from Church Gate Street to Bandstand	21,182 8 8		
Measures for relieving the surcharging of sewers	16,99,084 13 8		
Construction of a storm-water drain from the junction of Reay and Connaught Roads to the Harbour near Lakri Bunder	5,56,937 8 7		
Construction of a storm-water drain in DeLisle Road, south of Arthur Road	29,871 15 10		
Construction of a storm-water drain in Elphinstone Road, West	12,771 5 2		
Construction of a storm-water drain in Ghorupdeo Road	17,554 2 3		
Construction of a storm-water drain in Mugbhat Lane	8 021 15 6		
Construction of an office for the Drainage Staff and quarters and an office for the Head Plumber at Babula Tank and providing fencing round the Drainage Chowki and metalling the yard	86,681 13 11		
Construction of two new Drainage Chowkies at Bapty Road and Churney Road	18,083 15 6		
		31,35,808 3 9	
13 Lakhs Loan—			
Construction of a storm-water drain from the foot of Byculla Bridge to the junction of Connaught and Reay Roads	8,14,019 8 9		
Construction of a storm-water drain in Soparibagh Road	2,12,956 7 6		
Construction of a storm-water drain from the Junction of Connaught and Reay Roads to Kalachowki and Soparibagh Roads	6,94,299 9 6		
Construction of a new drainage Outfall at Love Grove	2,68,817 4 11		
		14,75,092 9 8	
Executed out of savings on different Loans—			
Slab drain 18" × 18" in Store Lane, Homji Street	2,557 2 6		
Pipe sewer in Currey Road	2,595 15 5		
Main sewerage of Parel	22,121 7 8		
Arching over with brick masonry the main drain at the Arthur Road Crossing	15,655 0 4		
Executed out of savings on different Loans continued and carried over. Rs.	42,929 9 11		
C.—Drainage Works, &c., carried over Rs. ...		1,91,73,485 10 8	
		Carried over Rs. ...	1,70,01,001 10 7

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Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			1,70,01,001 10 7
C.—Drainage Works, &c.—*contd.* & brought forward Rs.		1,91,73,485 10 8	
Executed out of Savings on different Loans—contd. & brought forward Rs....	42,929 9 11		
9″ Pipe sewer at Lalwadi	2,087 8 2		
Laying branch pipe sewers in the village of Parel	17,527 13 11		
Ovoiding side-drains to the north of Kalachowki Road	2,600 4 3		
Completing the storm-water drain from the top of Bazar Gate Street to the Salvation Army Hall, Hornby Road	14,460 2 7		
Sewerage of Parel on the gravitation system	62,081 1 5		
Storm-water drain in Cruickshank Road	17,337 6 0		
Laying a 9″ pipe for the carriage of storm-water to the Sea from the eastern half of Wodehouse Road	1,992 1 3		
Laying a 9″ pipe-line at the Parel village	878 7 3		
Storm-water drains in part of Gilder Street and Foras Road from Grant Road to Falkland Road	10,781 14 10		
Constructing a catchpit on the Mint Road sewer opposite the European General Hospital...	4,880 10 8		
Altering and ovoiding storm-water drain in Girgaum	11,548 14 10		
Construction of a storm-water drain in Khetwadi	52,662 2 8		
Draining the storm-water from the public road round the Mahaluxmi Dhobiwada	1,156 0 8		
Ovoiding and regrading the open roadside drains in Umarkhadi Road ...	3,119 0 11		
Converting the old Engine-house at Love Grove into an office and godown and constructing a shred-lifter chamber with 4 shred-lifters	25,031 4 1		
Tidal flaps on flushing drains for ovoid sewers...	2,235 4 4		
Drainage arrangements at Tardeo Road...	2,292 0 8		
Laying a 9″ pipe sewer in Fergusson Cross Road	2,261 14 9		
Masonry drain from Girgaum Road and passing through Night-soil Depôt	21,317 6 7		
Opening out the public water-course behind Mr. Cama's property at Parel Road	3,362 6 7		
Laying a 12″ pipe from the emergent reservoir to manhole in Apollo Street	3,169 7 8		
Storm-water drains in different places	34,904 7 9		
Ovoiding and constructing masonry side-drains in different places... ...	17,895 11 11		
Ovoiding and constructing masonry side-drains on Carroll Road, north side	2,711 3 3		
Ovoiding kutcha drain in Arthur Road as far as G. I. P. Railway Crossing	4,988 15 1		
Constructing storm-water drains and ovoiding and constructing masonry side-drains in different places	20,493 10 8		
Automatic flush tanks on pipe sewers	38,434 0 10		
Improving side-drains, Malabar Hill	7,672 13 6		
Storm-water drains at Fergusson Road from DeLisle Road to the water-course (3,200 feet) west of the road	29,964 4 9		
Providing and constructing masonry side-drain in Malabar Hill	7,346 11 0		
Providing and constructing masonry side-drains (*a*) on Naigaum Cross Road on both sides from Vincent Road to Dadar and (*b*) east and west of Ghorupdeo Road	5,239 5 6		
Storm-water drain running on the west of the G. I. P. Railway Dadar Station	7,023 6 9		
Constructing quarters for workmen at Love Grove Air Compressor Station (including purchase of land and an old chawl)	21,961 1 5		
Constructing additional quarters for Lascars at Love Grove	5,477 9 6		
Cutting out rocky barriers in the channel at Love Grove	116 6 0		
Surface Drainage in Queen's Road between the level-crossing and Charni Road	2,807 15 0		
Ovoiding and regrading the side-drain in Imamwada from Parel Road to Jail Road, North	2,989 3 10		
Masonry storm-water drain 18″ × 18″ in Apollo Street	1,888 15 9		
Open ovoid drain on the east side of DeLisle Road	1,567 14 10		
Zinc ventshafts on pipe sewers in the Fort Sewerage District	11,165 8 9		
Storm-water drain in Sankli Street	11,529 15 8		
Cost of obtaining advice from Mr. Santo Crimp, in regard to House connections, &c.	11,992 9 10		
Construction of permanent manholes over drains	37,050 5 7		
Masonry side-drains at Malabar Hill from Gowalia Tank Road to the Government House	7,805 4 2		
Tidal flaps on the ovoid sewers	11,025 14 0		
Construction of a coal shed, a coal tramway, and fence round the compound of the Love Grove Air Compressor Station	11,211 10 9		
6″ Pipe Drain in DeLisle Road	430 10 7		
6″ Pipe Drain in Banganga Cross Lane	824 15 8		
Extension of the 15″ sealed sewage main in Fergusson Road from the Culvert to Worli Road	11,466 8 10		
Laying a 6″ pipe-drain in Tulsirampada in Parel Chawl Road	1,051 12 0		
Executed out of Savings on different Loans continued and carried over Rs.	6,33,852 0 9		
C.—Drainage Works, &c., carried over Rs. ...		1,91,73,485 10 8	
Carried over Rs. ...			1,70,01,001 10 7

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ..			1,70,01,001 10 7
C—Drainage Works, &c.—*contd.* & brought forward Rs.		1,91,73,485 10 8	
Executed out of Savings on different Loans—contd. & brought forward Rs. ...	6,33,852 0 9		
Laying a 6" pipe drain in the private passage known as Kalachowki Cross Lane	602 14 7		
6" pipe drain in the passage to the north of Parel Cross Lane	472 10 3		
Connecting certain properties in Gilder Street with the new storm-water drain constructed thereat	1,496 13 1		
Laying a 9" stoneware pipe drain in a portion of Foras Road, west of Carroll Road	1,365 13 11		
Laying a 6" pipe drain in the passage belonging to Sulleman Jusab at Belvedere Hill Road	647 8 2		
Laying a 6" pipe drain in Rapty Road	486 15 2		
Laying a 9" pipe drain at Tauk Bunder, Koliwada	2,042 13 3		
Construction of a catchpit on the Queen's Road ovoid sewer in Charni Road, &c.	6,202 0 4		
Laying a drain at Mr. Tribhowandas Varjivandas' Oart at Girgaum Back Road	254 13 2		
Storm-water drain in Ripon Road from Agripada drain to Jacob Circle ...	27,086 12 11		
Storm-water drain in Clerk Road from Parel Road to Jacob Circle...	26,909 9 11		
Storm-water drain in Haines Road from Khatao Makanji's Mill to Jacob Circle	48,844 13 3		
Laying a branch 6" pipe sewer at DeLisle Road	761 3 7		
Laying a 6" pipe drain at Ghorupdeo Road	404 6 3		
Laying a 9" pipe sewer along Elphinstone Road at its Junction with Parbhadevi Road	1,112 5 3		
Laying a 9" pipe drain with Inspection Chamber at the passage running through Chamarbag properties	3,938 8 10		
Giving Street connections to storm-water drains in the City	27,222 1 1		
Laying a 6" pipe drain on the Tulsi main road	1,000 9 1		
Laying a 6" pipe drain at Ghorupdeo Road, 1st Cross Lane	360 14 10		
Constructing a storm-water drain at Kalachowki Road	789 2 3		
Laying a 6" pipe drain along Chamarbag properties in Parel Road ...	1,166 0 8		
Laying a pipe sewer between Forjett Street and Tardeo Road	2,409 10 2		
Fees to Mr. Midgley Taylor on account of his report on the Ejector, &c., required for Sectional District	1,961 1 4		
Establishment for the preparation of plans and estimates for the sewerage of Mazagon, Parel and Old Race Course Districts	10,338 0 0		
Tracing the plans and sections of the Parel, Mazagon and Old Race Course Districts	658 15 0		
Fees to Messrs. Midgley Taylor and G. R. Strachan for their opinion on matters connected with the surcharging of sewers...	16,796 13 4		
Expenses incurred by Mr. James in connection with inquiries in regard to Lierner system, &c.	1,634 3 0		
Construction of a storm-water drain in Church Gate Street from its junction with Mayo Road to the main storm-water drain in Queen's Road near the Church Gate Street	4,033 9 5		
Laying a 6" pipe sewer in the passage opening to Portuguese Church Road	327 4 3		
Laying a 6" pipe drain at Madanpura	346 4 2		
Extension of the 15" sealed sewage main from the Chinchpokli Fire Brigade Station to the head manhole on Clerk Road sewer	12,408 4 9		
Constructing a storm-water drain in Colaba Causeway between Mayo Road and Thomas Street	8,973 9 11		
Preparation of certain models for improvement of main sewers, &c. ...	200 0 0		
Laying 6" pipe drain in the passage behind the New Building of Mr. Hormusji Vakil	5,226 13 4		
Laying a 6" pipe drain in the passage leading to the Hon'ble Mr. Setalvad's Bungalow	1,244 3 6		
Laying a 6" pipe drain in the Nepean Sea Road	1,343 11 7		
Laying a 9" pipe drain at Elphinstone Road	6,761 10 9		
Extending the exiing 6" pipe drain in the passage off Dadar and Kumbharwada Cross Lane	33 7 10		
Laying a 6" pipe drain in the passage at Currey Road	471 10 2		
Laying a 9" pipe drain in the passage leading to Government Gate Road, Parel	2,139 0 6		
Laying a 4" C. I. pipe drain from DeLisle Road to the boundary of the Century Mill premises	4,816 3 10		
Providing an additional pipe sewer and Ejector in Fergusson Road near its junction at DeLisle Road (North)	8,000 0 0		
Laying a 6" pipe sewer in the passage near the Lunatic Asylum, Colaba ...	1,304 5 4		
Laying a branch drain in the passage off Mount Pleasant Road	727 10 6		
Laying a 6" pipe sewer at Banganga Tank Lane	929 8 9		
Laying a 7" pipe drain on the eastern boundary of the Babula Tank ...	1,321 9 2		
Laying a 6" pipe drain in Gowalia Tank Road	387 11 9		
Laying a 6" pipe drain at Victoria Bunder Road	867 11 6		
Laying a 9" pipe drain in Kamatipura, 9th Street	562 1 2		
Laying a 6" pipe drain in the lane behind No. 48-51, Warden Road ...	1,610 10 10		
Executed out of Savings on different Loans—Carried over Rs. ...	8,84,207 9 5		
C.—Drainage Works, &c.—Carried over Rs. ...		1,91,73,485 10 8	
Carried over Rs. ...			1,70,01,001 10 7

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a p.	Rs. a p.	Rs. a p.
Brought forward Rs. ..			1,70,01,001 10 7
C.—Drainage Works, &c.—*contd.* & brought forward Rs.		1,91,78,485 10 8	
Works executed out of Savings on different Loans—*contd.* & brought forward Rs.	8,84,207 9 5		
Laying a 6" pipe drain at Warden and Tardeo Roads	486 3 6		
Laying a 6" pipe sewer in the compound of premises No. 14-20 to the east of Cumballa Hotel Lane	615 3 7		
Laying a 6" pipe drain in the passage leading to Khed Tank in the north of Elphinstone Road	1,027 11 3		
Laying a 6" pipe drain in the passage to the east of Cumballa Hotel Lane	334 6 2		
Laying a 6" pipe drain at Nepean Sea Road	978 13 7		
Colaba Sewerage Work	44,486 14 11		
Sewerage of the Malabar Hill District	7,894 12 2		
Laying a 4" air main in Victoria Extension Road from the junction of Victoria Road and Mount Road to Ejector Station No. 2, Mazagaon, in place of the existing 2½" C. I. main	4,320 0 2		
Construction of a sealed sewage main from the Elphinstone Road Ejector Station to Worli Road	68,326 11 1		
Constructing a masonry drain with four manholes and eight half-sized water entrances at DeLisle Road	6,351 8 10		
Filling in the open side drains on both the sides and providing covered storm-water drains with water tables and water gullies in portions of 1st to 5th Khetwadi Lanes and Main Roads	7,431 11 8		
Filling in old side drains and providing a covered drain with manholes, full-sized and half-sized water entrances, with water tables on 14th Khetwadi Lane	3,184 6 8		
Providing storm-water drain with water entrances and water tables at 11th Khetwadi Lane	3,184 12 1		
Constructing a road-side drain and providing a covered storm-water drain at Girgaum Back Road	12,962 13 9		
Laying a 6" pipe drain on the West of Dadar Road	258 10 8		
Laying a 9" pipe sewer between Charni Road and Khetwadi 11th Lane...	1,689 3 1		
Making three drainage connections to the storm-water drain in Hornby Road	238 0 10		
Completion of house drainage connections in different parts of the City...	20,764 8 11		
Surface drainage of Dadar and Naigaum Roads	16,581 6 2		
Providing fair weather cast-iron covers and frames for water entrances in A Ward	5,118 8 2		
Subsidiary works at the Love Grove New Pumping Station in connection with the measures for relieving the surcharging of sewers	88,379 10 0		
Laying a 15" pipe sewer from the Wellington Fountain to the head manhole of the Mint Road ovoid sewer	28,797 6 10		
		12,05,675 1 1	
Advances from Surplus Balances—			
Additions to and enlargement of existing sewers in connection with the duplication of Tansa main	5,88,974 10 0		
Sewerage of the north of the Island	1,689 9 1		
		5,90,655 3 1	
Total for C Drainage ...			2,09,69,815 14 12
D.—Water Works—			
Vehar Lake (value of)		45,21,948 7 9	
Tulsi Water Works	37,61,838 6 0		
Vehar Outlet Tower	2,88,111 10 0		
		40,50,000 0 0	
Drainage and Water Works Loan of 1873—			
Service Reservoir at Bhandarwada		10,16,830 13 3	
44 Lakhs Sanitary Works Loan—			
Tulsi gathering ground	60,000 0 0		
Malabar Hill Reservoir	4,00,000 0 0		
New hydrants, including cost of erection	20,876 7 7		
Tulsi gathering ground	34,500 0 0		
Construction of a double-storeyed chawl for the Water Works staff and quarters for the Superintendent	29,182 3 3		
Survey of new catch-water channels, &c.	7,838 4 1		
Construction of filter beds at Vehar	1,04,433 15 11		
Improvement of the water-supply of the outlying districts	6,82,065 0 8		
Raising the Tulsi dams	1,13,257 9 7		
Providing additional catch-water channels at Vehar and Tulsi	91,794 0 6		
Purchase of check meters for the prevention of waste of water	1,27,122 14 8		
Enlarging different mains	1,08,130 8 6		
Cost of new water mains from Nesbit Road to Babula Tank	15,000 0 0		
Establishment charges	90,779 0 0		
Portion of excess cost of Vehar Outlet Tower—debitable to this Loan ...	28,884 11 9		
Provision of turbine at the Malabar Hill Reservoir	2,282 0 0		
		19,88,917 12 0	
7 Lakhs Sanitary Works Loan—			
Malabar Hill Reservoir (extra cost)	1,14,089 2 6		
Increasing and improving the distribution of the water-supply and providing higher levels, Tulsi District, with filtered water	20,211 8 4		
Portion of excess cost of Vehar Outlet Tower	7,950 10 6		
		1,12,211 5 4	
D—Water Works, &c.—Carried over Rs. ...		1,15,76,863 6 4	
Carried over Rs. ...			3,75,70,817 3

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			3,79,70,817 9 5
D.—Water Works, &c.—*contd.*—and brought forward Rs.		1,15,76,963 6 4	
12 *Lakhs Drainage and Water Works Loan*—			
18″ main in Frere Road from the Bhandarwada Reservoir to Carnac Road and 12″ main from Carnac Road to Mint		80,031 5 0	
10,08,500 *Miscellaneous Works Loan*—			
Concrete trench, waste weir, Vehar Lake	30,608 7 1		
Mains in 14 streets west of Frere Road and other mains in various places.	59,275 1 8		
Arthur Road connection works necessitated by the laying of the Tansa 27″ main	9,542 10 5		
Deacon's meters	16,788 0 0		
		1,16,214 3 2	
35 *Lakhs Various Sanitary Works Loan*—			
Providing an asphalt surface to the floor of the settling basin of the Malabar Hill Reservoir and other works in connection therewith ...	92,872 9 2		
Pawai Water Works	6,14,984 6 9		
Additional Water Mains	98,386 0 10		
Extension of Tulsi Catch-water Channel	20,836 9 1		
		8,27,079 9 10	
147 *Lakhs Tansa Loan*—			
Tansa Water Works including cost of survey		*1,46,96,383 7 0	
15¾ *Lakhs Loan*—			
Improvements of the outlet towers at Vehar and Tulsi		12,842 18 10	
25 *Lakhs Loan*—			
9″ main from Ghorupdeo Road to Jackeria Bunder Road and 6″ main from thence to Sewri Cemetery Road...	27,892 4 7		
New mains in Reay Road, &c.	1,042 5 0		
Main along Kalachowki Road from Parel Road to Ghorupdeo Road and along Reay Road from Kalachowki Road to Bhandarwada Reservoir ...	1,26,969 12 8		
9″ service main connected at one end with the Bhandarwada Reservoir and at the other with the Sewri Road 12″ main and supplemented midway by a 9″ service main down Connaught Road	48,364 0 5		
		2,04,268 6 8	
28½ *Lakhs Loan*—			
Extension of water mains in various places	28,026 6 5		
Further alterations and improvements at the Malabar Hill Reservoir ...	23,971 14 8		
Covering storage basin at the Bhandarwada Reservoir and constructing filters over it	91,052 13 0		
Road from Vehar to Tulsi with a light tramway to carry pipes	471 3 6		
		1,49,522 5 7	
24¾ *Lakhs Loan*—			
9″ and 10″ pipes from Grant Road to Ramathipura	7,163 3 9		
Distribution mains in Tardeo and Gamdevi Roads	7,391 5 2		
Mains from 48″ Tansa main at Chinchpokli to Grant Road and 32″ main from Grant Road to Malabar Hill	2,10,000 0 0		
32″ outlet mains from Malabar Hill to Chowpati	30,000 0 0		
		2,54,554 8 11	
12¾ *Lakhs Water Works Loan*—			
Construction of additional filters at the Malabar Hill Reservoir	2,45,319 9 2		
Replacement of the Vehar main for the whole distance between Vehar and Coorla, north of Coorla	6,63,281 7 7		
Removing and relaying the 32″ Vehar main, south of Coorla	†1,59,570 0 0		
Water mains in connection with the Improvement Trust Schemes—			
9″ and 4″ mains in the new roads in the Agripada District	43,790 0 4		
4″ main in New Street near Lohar Chawl	2,531 10 0		
Mains in the 1st Nagpada Scheme	6,731 6 1		
4″ main along Wodehouse Road...	2,426 2 11		
4″ main in Sankli Street	1,140 11 7		
4″ main in Connaught Road Estate	1,666 9 8		
		11,26,457 9 4	
55 *Lakhs Loan*—			
48″ Tansa main at Chinchpokli to Grant Road and 32″ main from Grant Road to Malabar Hill	47,629 7 1		
32″ outlet mains from Malabar Hill to Chowpati	15,922 14 6		
Laying new water mains and fixing hydrants in the roads, "City Improvement Scheme No. IV."	30,743 12 5		
Laying water mains in B Ward	1,00,708 0 0		
Laying water mains on the Colaba Reclamation	36,269 2 0		
Laying water mains in A Ward	1,08,053 0 0		
Construction of quarters for Water Works Office Staff on the Babula Tank Site	1,650 10 3		
Laying a 9″ main along Mount Road from its junction with Love Lane to the junction at Victoria Road and a 6″ main along Ghorupdeo Road to be joined to the 6″ main already laid in Albert Road..	15,972 15 0		
Laying an additional 9″ main on the 24″ main, somewhat north of Government House, Parel, to join the 4″ main in Lady Jamsetji Road...	13,094 10 0		
		3,70,044 7 3	
D—Water Works, &c.—Carried over Rs. ...		2,94,14,362 2 11	
		Carried over Rs. ...	3,79,70,817 9 5

* Exclusive of Rs. 2,40,000 paid out of the Premia received on the Loan.

† Exclusive of Rs. 3,74,000 paid from the contribution received from the G. I. P. Railway Co.

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			3,79,70,817 9 5
D.—Water Works, &c.—*contd.* and brought forward Rs.		2,94,14,362 2 11	
70 Lakhs Loan—			
Tansa Reduplication and Auxiliary Works—			
Duplicating Syphons Nos. 1 to 7...	33,73,720 4 1		
Do. Syphon No. 8	29,68,335 0 0		
Raising Tansa Dam	4,38,829 15 4		
Distributing mains in the City	2,17,430 0 0		
		69,98,315 3 5	
43 Lakhs Loan—			
Laying a 5″ service main in Sandhurst Road	37,239 14 8		
Laying a 14″ main in Parel Road north of Grant Road	19,010 8 3		
Substitution of an electrically driven Turbine pump for plunger pumps and construction of a water tower on the Malabar Hill Reservoir ...	41,047 3 10		
		97,297 10 9	
Works executed out of Savings on Loans—			
Renewal of water mains in the Girgaum District for improvement of the water supply	48,890 2 11		
15″ water main from 24″ main in Bholwada to Elphinstone Road as far as new Parbhadevi Road and thence a 9″ main to the Century Mill ...	49,452 0 2		
New mains in various places	28,868 1 1		
Covering storage basin at the Bhandarwada Reservoir and constructing filters over it	44,597 14 4		
Excess cost of Worli Road main...	21,696 4 1		
Residence of the Chief Inspector, Water Works, at Babula Tank Road, and rooms for 6 sluicemen	32,028 1 3		
24″ and 27″ mains from Malabar Hill Reservoir to Frere Fountain, Fort...	50,093 1 2		
Connections at Chinchpokli between Tansa and Vehar mains	7,402 1 4		
Laying water mains in Wellington Lines	4,897 9 5		
Do. do. in A Ward	12,943 13 1		
Renewing 3″ main in B Ward with 4″ pipes—extra cost chargeable to Capital	4,533 3 4		
Replacing 32″ Vehar pipes for 1½ miles by 48″ C. I. pipes (north of Coorla).	2,82,488 15 0		
9″ main in DeLisle Road	9,849 6 1		
4″ main in Khara Talao Road	2,774 11 7		
Providing the trunk water mains with Venturi water meters	23,000 0 0		
Laying water mains in B Ward	17,213 12 8		
Fixing Deacon's meters on the distributing mains	29,445 4 8		
Extending the existing 9″ main in the Agripada District along Gilder Street to join the existing 32″ main in Grant Road	11,904 13 6		
Extending the existing 9″ main in DeLisle Road to join with 15″ main in Elphinstone Road	8,983 12 0		
Travelling expenses to an Inspector and a lascar for taking survey, &c., in connection with the storage reservoir and filter beds at Ghatkoper ...	35 0 6		
Constructing office, quarters and store-rooms for W. W.. G Ward, at DeLisle Road on the site of Foras Tank	19,415 3 11		
Extending the 9″ main laid along the bank of the drainage channel across the proposed Foras Road from the Century Mill to join the existing 9″ main at Worli	4,092 4 11		
Tansa Reduplication and Auxiliary works—Distributing mains in the city.	2,36,572 4 10		
		9,36,107 13 10	
Advances from Surplus Balances—			
Removing and relaying the 32″ Vehar main south of Coorla (pending realization by the sale of old pipes and lead)	*Cr.* 4,167 11 1		
Constructing a Screening Tower at Vehar Lake	20,579 2 7		
Tansa Reduplication and Auxiliary works—			
General expenses	64,278 1 6		
Reservoir at Ghatkoper	4,045 13 0		
		84,735 6 0	
D.—Water Works, &c.—Carried over Rs. ...		3,75,30,818 4 11	
		Carried over Rs. ...	3,79,70,817 9 5

Appendix No. 10-A—*continued.*

	Amount.	Total.	Grand Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought forward Rs. ...			3,79,70,817 9 ..
D.—Water Works, &c.—*contd.* and brought forward Rs....		3,75,30,818 4 11	
Paid out of the Worn-out Water Mains Renewal Fund—			
Replacing 3″ main in Arthur Road by a 6″ main and to extend it so as to join the 6″ main in Kalachowki Road	431 2 4		
Laying a 9″ main along Mount Road from its junction with Love Lane to the junction at Victoria Road and a 6″ main along Ghorupdeo Road to be joined to the 6″ main already laid in Albert Road	6,446 14 1		
Laying a 6″ main in Matarpakhadi and a 12″ main along Mazagon Road from Nesbit Lane to Mount Road	5,696 15 4		
Cost of renewing 3″ main in Worli Road with 9″ pipes (chargeable to revenue)	26,517 3 9		
Replacing 3″ main in Zaoba's Oarts by a 4″ one	672 7 6		
Mains in the 1st Nagpada Scheme	1,645 6 0		
Replacing the 5″ main in Janjikar Street and 3″ and 4″ main in Old Hanuman Lane by a 6″ main	4,359 1 2		
4″ main in New Street near Lohar Chawl	2,168 15 11		
Replacing 3″ main in Foras Road by a 6″ main	3,427 0 0		
Replacing the 3″ main in Chunam Kiln Road by a 5″ main	996 14 10		
Replacing a 3″ water main in Mazagon Road by 5″ main, &c.	2,133 4 1		
Laying water mains in A Ward	53,230 8 10		
Laying water mains in B Ward	57,241 10 2		
Replacing a 3″ water main in Mughbhat Cross Lane by a 5″ main ...	924 5 9		
Laying 3″ main in Gunpowder Road to be replaced by a 5″ main, &c., &c.	1,730 5 8		
6″ water main in Soparibag Road from the Junction of Parel Govt. Gate Road with Elphinstone Road	8,338 15 3		
Laying a 9″ main in Cawasji Patel Street	2,817 1 10		
Replacing 3″ main in Huzria Street by a 5″ main	1,141 9 8		
Laying 3″ and 4″ mains in Kamatipura Bazar Road by a 6″ main ...	2,447 1 6		
Replacing 3″ water main in the Mahomedan Street at Ripon Road by a 5″ main	1,266 1 4		
Replacing 3″ main in Bapu Khote Street by a 5″ main	1,186 8 0		
Replacing the 3″ pipe in Arthur Road by a 6″ one and extending it so as to join the 6″ main in Kalachowki Road	551 2 8		
Laying a 12″ main from the Tulsi Pipe line to Worli Road in place of the 6″ main in Fergusson Road	4,146 5 6		
Laying a 5″ water main in place of the existing 3″ main in Fanaswadi ...	1,352 1 0		
„ 5″ main in Tank Street	1,579 0 7		
„ 4″ „ „ Sheik Burhan Street	329 1 11		
Replacing 4″ „ „ by a 6″ main in Love Lane	2,318 9 8		
Replacing small service mains in various parts of the City	8,715 9 3		
Laying 5″ main in Vithoba Lane...	365 0 1		
Laying 5″ main in Temker Street	1,830 10 11		
Replacing 3″ main in Kika Street by a 5″ one...	2,402 6 0		
Replacing 3″ main by 5″ main in Guzar Street	966 15 5		
Laying 5″ main in Undria Street	1,751 1 9		
Laying two 6″ water mains, one on each side of the Sandhurst Road extension between Dongri Street and Chinch Bunder Road	5,546 13 5		
		2,17,126 7 2	
Total for *D* ...			3,77,47,944 12 1
E.—Cemeteries (*Burning and Burial Grounds*)—			
16¼ *Lakhs Loan*—			
Burial ground for Mahomedans and Beni-Israels		2,11,662 4 5	
19½ *Lakhs Loan*—			
Purchase of two sites of land for burning and burial grounds at Mahim and Worli, including cost of enclosure walls, &c.		47,680 4 4	
25 *Lakhs Loan*—			
Purchase of land from Mr. Ashburner for extension of burial ground for Mahomedans	1,17,046 0 6		
Purchase of land in Narielwadi for future extension of burial ground for Mahomedans	1,60,577 5 10		
Extension of burial ground at the Sewri Cemetery	71,640 9 8		
		3,49,264 0 0	
55 *Lakhs Loan*—			
Providing a burial ground at Haines Road for the Portuguese Community	26,949 12 7		
Providing a burial ground for Mahomedans in F and G Wards at Antop Hill, Matunga	25,981 11 5		
Extension of the Sewri Cemetery	31,238 12 1		
		84,165 4 1	
Executed out of Savings on different Loans—			
Filling in the portion of the Haines Road Cemetery	9,331 13 3		
Providing a boundary wall at the Haines Road Cemetery	13,278 9 6		
		22,610 6 9	
Advances from Surplus Balances—			
Acquisition of land required for the extension of the Hindu Burial Ground at Mahim		20,094 14 9	
Total for *E* ...			7,35,467 2 4
		Carried over Rs. ...	7,64,54,229 7 10

Appendix No. 10-A—*concluded.*

	Amount.	Total.	GRAND TOTAL.
	Rs. a. p.	Rs. a. p.	Rs. a. p
Brought forward Rs. ...			7,64,64,229 7 10
F.—Disposal of Town Sweepings—			
35 *Lakhs Loan*—			
Purchase of land on the Flats required for the disposal of Town sweepings.		1,95,913 8 8	
23½ *Lakhs Loan*—			
Purchase of land on the Flats for the deposit of kutchra		5,890 14 1	
25 *Lakhs Loan*—			
Disposal of Town sweepings at Deonar...		7,84,060 0 0	
19¼ *Lakhs Loan*—			
Extra cost of the scheme for the disposal of Town sweepings at Deonar ...		53,619 13 4	
Executed out of savings on different Loans—			
20 additional wagons for the disposal of Town sweepings		38,684 2 0	
Total for *F* ...			10,81,168 6 1
G.—Miscellaneous—			
19¼ *Lakhs Loan*—			
Purchase of land for the site of the Petit Hall and other charges in connection therewith		2,476 8 6	
55 *Lakhs Loan*—			
Filling in the Babula Tank with debris		58,857 15 9	
43 *Lakhs Loan*—			
Filling in Gowalia Tank and making Roads, &c., thereon		1,48,967 11 10	
Executed out of savings on different Loans—			
Filling in Matarpakhadi Tank at Mount Road...	2,607 5 8		
Filling in Gilder Tank	15,488 9 4		
Filling in the portion of the old water-course situated at the north corner of the Foras Tank and west of Purbhadevi Night-soil Depôt in DeLisle Road	3,506 5 7	21,602 4 7	
Advances from Surplus Balances—			
Laying out a new park at the site of the old Bhatia Baug		21,455 5 0	
Total for *G* ...			2,53,359 13 8
		Grand Total Rs. ..	7,77,88,697 11 7

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner.

Appendix No. 10-B.

STATEMENT showing the Invested Balances on 31st March 1916 as compared with those at 31st March 1915.

	On 31st March 1915.	On 31st March 1916.	More.	Less.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—SURPLUS FUNDS INVESTMENTS ...	50,49,691 6 11	62,75,616 10 0	12,25,925 3 1	.....
LOAN FUNDS INVESTMENTS	6,49,268 15 10	34,94,228 15 1	28,44,959 15 3	.....
	56,98,960 6 9	97,69,845 9 1	40,70,885 2 4	.....
B.—SINKING FUND—				
5 per cent. Municipal Loans	72,82,929 4 0	77,86,191 5 4	5,03,262 1 4	.....
4 do. do. 3½ % basis..	65,79,740 7 5	71,25,339 2 0	5,45,598 10 7	.....
4 do. do. 3 % „	9,27,515 4 0	12,80,176 5 4	3,52,661 1 4	.....
3½ do. do. ..	2,90,631 5 4	3,13,173 11 4	22,542 6 0	.....
	1,50,80,816 4 9	1,65,04,880 8 0	14,24,064 3 3	.....
C.—SPECIAL FUNDS—				
Municipal Fire and Accident Insurance Fund	2,00,643 11 2	2,16,978 3 2	16,334 3 0	.....
Worn-out Water Mains Renewal Fund	5,55,616 9 9	5,69,485 15 5	13,869 5 8	.....
Net Premia Fund	1,51,883 2 1	1,34,164 10 7	.....	17,718 7 6
	9,08,143 7 0	9,20,628 13 2	30,203 13 8	17,718 7 6
	2,16,87,920 2 6	2,71,95,354 14 3	55,25,153 3 3	17,718 7 6
Contractors', &c., Deposits in Government and other Securities	5,20,000 0 0	3,79,400 0 0	.....	1,40,600 0 0
Total Rs. ...	2,22,07,920 2 6	2,75,74,754 14 3	55,25,153 3 3	1,58,318 7 6

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner.

Appendix No.
WATER WORKS

INCOME FOR 1915-16.

INCOME.	Amount. Rs. a. p.
Water Tax and other Miscellaneous Water Works Revenue—*vide* details in Appendix No. 13 (*vide* page 114) ...	23,23,021 1 3
Interest on the Investment of the unexpended balance of the different Water Works Loans (Rs. 10,789-7-8), *vide* Appendix No. 12.	† 434 12 9
	23,23,455 14 0
Excess of Expenditure over Income ... ... Rs. ...	23,529 12 7
Total Rs. ...	23,46,985 10 7

* This includes Rs. 11,58,148-6-0 being the amount of Water Tax by measurement, realized during 1915-16 as shown in the following Statement :—

† *Vide* note at page 118.

W. E. WAITE,
Chief Accountant.

11.
ACCOUNT.

EXPENDITURE FOR 1915-16.

EXPENDITURE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
General Superintendence (proportion of)(*vide* note ‡ at page 115).	39,957 7 11			
Assessment and Collection Charges (proportion of) (*vide* note † at page 115)	65,417 4 3			
Engineer's Establishment (proportion of) (*vide* note § at page115).	15,762 14 11	1,21,137 11 1		
Maintenance of Water Works (*vide* page 117)		3,52,684 15 3		
New Works (*vide* page 119)		30,452 6 1	5,04,275 0 5	
Interest on Water Works Loans (Debt)—				
Due to Government—Vehar Debt	.....	38,279 4 0		
Due to the Public—				
Portion of 10 Lakhs for Bhandarwada Water Works of the Loan of Rs. 26,94,000 of 1878	10,189 4 11			
Water Works portion of the 44 Lakhs Sanitary Works Loan (Rs. 18,98,921)	79,711 8 4			
Water Works portion of the 7 Lakhs Sanitary Works Loan (Rs. 1,90,389)	8,720 7 11			
Water Works portion of the 12 Lakhs Drainage and Water Works Loan (Rs. 85,000)	4,176 5 0			
Tansa Water Works Loan of Rs. 147 lakhs	7,32,612 8 0			
Water Works portion of the Rs. 10,08,500 Miscellaneous Works Loan (Rs. 1,35,000)	6,519 1 4			
Water Works portion of the 35 Lakhs Various Sanitary Works Loan (Rs. 9,20,000)	44,357 2 3			
Water Works portion of the 42 Lakhs Loan for repayment of Government Consolidated Loan (Rs. 28,59,762) ...	1,14,608 5 10			
Water Works portion of the 23½ Lakhs Loan for Drainage and other Works (Rs. 2,45,500)	9,946 11 4			
Water Works portion of the 15¾ Lakhs Loan for Sewerage, Wari Bunder, &c., Works (Rs. 30,000)	801 10 8			
Water Works portion of the 25 Lakhs Loan for Sewerage, &c., Works (Rs. 2,31,297)	9,282 6 6			
Water Works portion of the 24¾ Lakhs Loan for certain Sewerage and Water Works (Rs. 2,73,000)	10,880 10 5			
12¾ Lakhs Loan for certain Water Works (Rs. 12,75,000) ...	42,480 0 0			
55 Lakhs Loan for Miscellaneous Works (Rs. 4,49,642) ...	17,981 10 10			
70 Lakhs Loan for Reduplication of the Tansa Main and other auxiliary works	2,82,416 7 11			
Water Works portion of the 43 Lakhs Loan for Drainage, Water, Roads, and Miscellaneous Works (Rs. 2,90,500) ...	1,414 5 1	(a) 13,76,042 10 4		
Commission to the Bank of Bombay for payment of interest on the Water Works portion of the different Loans	5,740 11 0			
Miscellaneous Loan Charges, including Commission paid to the Bank of Bombay for drawing interest on Sinking Fund Investments	363 6 9	(a) 6,104 1 9	14,70,126 0 1	
Payments towards the reduction of debt or investment of Sinking Fund of the following Water Works Loans:—				
Vehar Debt		26,696 12 0		
Portion of the 10 Lakhs for Bhandarwada Water Works of the Loan of Rs. 26,94,000 of 1878		44,643 6 10		
Water Works portion of the 44 Lakhs Sanitary Works Loan (Rs. 18,98,921) ...		17,790 6 6		
Do. do. 7 lakhs Sanitary Works Loan (Rs. 1,90,389) ...		2,292 9 0		
Do. do. 12 Lakhs Drainage and Water Works Loan (Rs. 85,000)...		903 0 7		
Do. do. Rs. 10,08,500 Miscellaneous Works Loan (Rs. 1,35,000).		1,558 4 6		
Tansa Water Works Loan of Rs. 147 Lakhs		64,622 1 0		
Water Works portion of the 35 Lakhs Various Sanitary Works Loan (Rs. 9,20,000)		11,453 6 8		
Do. do. 42 Lakhs Loans for repayment of Government Consolidated Loan (Rs. 28,59,762)		59,532 6 11		
Do. do. 23½ Lakhs Loan for Drainage and other Works (Rs. 2,45,500)		29,101 12 4		
Do. do. 15¾ Lakhs Loan for Sewerage, Wari Bunder, &c., Works (Rs 30,000)		350 4 1		
Do. do. 25 Lakhs Loan for Sewerage, &c., Works (Rs. 2,31,297)		3,027 15 5		
Do. do. 24¾ Lakhs Loan (Rs. 2,73,000)		3,174 15 1		
Do. do. 12¾ „ „		24,577 11 11		
Do. do. 55 „ „ (Rs. 4,49,642)		9,941 9 3		
70 Lakhs Loan for Reduplication of the Tansa Main and other auxiliary works ...		76,148 0 0	(a)3 72,284 10 1	23,46,985 10 7

(a) *Vide* notes *, †, and ‡ at page 125.

S. M. EDWARDES,
Municipal Commissioner.

Appendix

WATER WORKS

SCHEDULE OF LIABILITIES AND

LIABILITIES.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Debt due to Government—			
Government of Bombay on account of Vehar Debt (see page 82)		21,92,274 15 9	
Debt due to the Public—			
Portion of 10 lakhs for the Bhandarwada Water Works of the Loan of Rs. 26,94,000 of 1878	1,71,868 6 5		
Water Works portion of the 44 lakhs Sanitary Works Loan	16,13,651 4 7		
Water Works portion of the 7 lakhs Sanitary Works Loan	1,90,389 0 0		
Water Works portion of the 12 lakhs Drainage and Water Works Loan	85,000 0 0		
Water Works portion of the Miscellaneous Works Loan of Rs. 10,08,500	1,35,000 0 0		
Water Works portion of the 35 lakhs Various Sanitary Works Loan	9,20,000 0 0		
Tansa Water Works Loan of 147 lakhs	1,47,00,000 0 0		
Water Works portion of the 42 lakhs Loan for repayment of the balance of Government Consolidated Loan ...	28,59,762 0 0		
Water Works portion of the 23½ lakhs Loan for Drainage and other Works	2,45,500 0 0		
Water Works portion of the 15¾ lakhs Loan for Sewerage, Wari Bunder, &c., Roads, Burial Ground and certain Water Works	30,000 0 0		
Water Works portion of the 25 lakhs Loan for Sewerage, Roads and other Works	2,31,297 0 0		
Water Works portion of the 24¾ lakhs loan for certain Sewerage and Water Works	2,73,000 0 0		
12½ Lakhs Loan for certain Water Works	12,75,000 0 0		
Water Works portion of the 55 Lakhs Loan for Mis. works.	4,49,542 0 0		
70 Lakhs Loan for the Reduplication of the Tansa Main and other Auxiliary Works	70,00,000 0 0		
Water Works portion of 43 Lakhs Loan for Miscellaneous Works	2,00,500 0 0		
		3,03,30,504 11 0	
II.—SINKING FUNDS ON MUNICIPAL LOANS (invested as per contra)			3,25,72,779 10 9
			60,88,694 9 9
III.—SPECIAL FUNDS—			
Worn-out Water Mains Renewal Fund (invested as per contra)		5,69,485 15 5	
Net Premia Fund (invested as per contra)		56,977 11 1	
			6,26,463 10 6
IV.—CAPITAL ACCOUNT—			
General Reserve being Assets in excess of Liabilities ...			51,85,954 8 7
TOTAL RS.			4,44,73,892 7 7

W. E. WAITE,
Chief Accountant.

No. 12.
ACCOUNT.
ASSETS AT 31ST MARCH 1916.

ASSETS.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Properties—			
Water Works executed out of Loan and Reserve Funds as detailed at pages 96 to 103 (*vide* Appendix No. 10-A) ...			(a) 3,77,47,944 12 1
II. Investments—			
1. Bank of Bombay, Municipal Loans Sinking Fund Deposit Accounts—			
Rs. a. p.			
5 per cent. Loans 36,53,091 11 6			
4 „ „ 24,26,207 10 9			
3½ „ „ 9,395 3 6			
	(b) 60,88,694 9 9		
2. Bank of Bombay—Worn-out Water Mains Renewal Fund Deposit Account (*vide* page 95)	5,69,485 15 5		
3. Bank of Bombay—Net Premia on different Municipal Loans Deposit Account (*vide* note at page 95)	56,977 11 1		
		67,15,158 4 3	
4. Loan Funds Investments Deposits (*vide* note at page 93)	95,524 13 3		
Less—Value of properties (Water Works) executed out of Loan Funds Advances (*vide* page 106)	84,735 6 0		
		10,789 7 3	
			67,25,947 11 6
		TOTAL Rs. ...	4,44,73,892 7 7

(a) Exclusive of charges met out of the contribution from the G. I. P. Railway Company for removing and relaying 32" Vehar Main at Coorla. When this work is completed and the difference between the value of the old and new work is ascertained, necessary adjustment for treating the item as "Assets" will be made.

(b) *Vide* page 107.

S. M. EDWARDES,
Municipal Commissioner.

Appendix

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS

ending 31st

RECEIPTS.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND.				
Cash Balance (in Bank and Office Treasuries) on 1st April 1915				2,08,791 10 9
GENERAL TAX—				
From the Public		46,30,619 9 0		
„ Government of Bombay		2,88,701 3 8		
„ Port Trust		5,09,430 0 0		
			54,37,750 12 8	
WHEEL TAX AND TOLLS—				
WHEEL TAX—				
Through Assessor and Collector (Private Conveyances).	2,46,380 1 6			
Through the Chief Accountant (Public Land Conveyances)	2,49,960 0 0			
		4,96,340 1 6		
TOLLS—(Through Contractors)		22,433 5 4		
			5,18,773 6 10	
TOWN DUTIES (Gross Collections)		36,45,553 13 1		
Less—Refunds		16,26,456 13 7		
			20,19,096 15 6	
LICENSES—				
(*a*) Taxes on Trades and Professions		1,18,730 2 0		
(*b*) Land Conveyance, Music, &c., Licenses (issued by the Commissioner of Police)—				
(1) Public Conveyance	.....			
(2) Music Licenses	7,160 2 10			
(3) Motor Car Licenses	1,696 11 5	8,856 14 3		
			1,27,587 0 3	
LIQUOR LICENSES—Receipts from Government ...			1,43,750 0 0	
TOBACCO DUTY LICENSES—Receipts from Government (through Commissioner of Customs)			3,04,644 3 1	
HALALKHORE TAX—				
On value		13,59,678 15 11		
For special services		1,08,907 13 8		
			14,68,586 13 7	
WATER TAX AND OTHER MISCELLANEOUS WATER WORKS REVENUE—				
Water Tax through Assessor and Collector— Rs. a. p.				
On value 10,73,680 9 7				
On meter measurement 11,49,853 2 2				
Compounded Tax 13,102 2 6				
	22,36,635 14 3			
Water charges recovered through Water Engineer ...	17,541 0 7			
	22,54,176 14 10			
Rent of Water Meters	34,541 10 8			
Miscellaneous	22,274 6 8			
		23,10,993 0 2		
Sale-proceeds of and produce of lands		11,291 1 3		
Rent of lands and buildings		786 15 10		
			23,23,021 1 3	
MARKET RECEIPTS—				
Stall rents	1,94,257 1 6			
Squatters' fees	51,006 0 6			
Fair Ground and Feeding Fees from Contractors ...	81,600 0 0			
Miscellaneous	28,786 1 0			
		3,55,649 2 6		
Slaughter fees		2,21,934 6 0		
Rent of lands and buildings		3,168 0 0		
Sale-proceeds and produce of lands		2 8 0		
			5,80,754 0 6	
Carried over Rs. ...			1,29,23,964 5 8	2,08,791 10 9

No. 13.

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1916.

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
DISBURSEMENTS.				
MUNICIPAL FUND.				
GENERAL SUPERINTENDENCE—				
Standing Committee and Corporation Establishment ...		83,862 13 4		
Municipal Commissioner's Personal Office Establishment		64,331 8 10		
General Office Establishment		81,736 8 9		
Accounts and Expenditure Audit Establishment ...		89,729 0 4		
			* 3,19,659 15 3	
ASSESSMENT AND COLLECTION DEPARTMENT—				
Property and Wheel Tax Establishment	† 2,18,057 9 0			
Town Duty Collection	1,15,475 14 4			
Licensing Establishment	28,270 12 0			
Revenue and Refund Audit Establishment	‡ 89,421 11 4			
		4,51,225 14 8		
TOLLS COLLECTION—				
Establishment and other charges		412 8 0		
			4,51,638 6 8	
FIRE BRIGADE		1,58,220 8 6		
Add—Transferred from Interest on Loans, (page 125)—				
(1) Interest on the Fire Brigade portion of the 55 lakhs loan	5,880 0 0			
(2) Interest on the Fire Brigade Loan of 4½ lakhs...	18,000 0 0			
		23,880 0 0		
MAINTENANCE OF PUBLIC GARDENS—			¶ 1,77,100 8 6	
(*a*) VICTORIA GARDENS—				
Maintenance		75,062 13 6		
(*b*) ELPHINSTONE CIRCLE GARDEN...		1,265 11 3		
(*c*) FALKLAND ROAD GARDEN		159 1 9		
(*d*) NORTHBROOK GARDEN		981 3 8		
(*e*) SIR COWASJEE JEHANGIR GARDEN		187 9 8		
(*f*) BAZAR GATE GARDEN		24 14 6		
(*g*) DICK'S TANK GARDEN		149 15 2		
(*h*) MALABAR HILL GARDEN		114 0 2		
(*i*) ESPLANADE GARDEN		2,931 8 10		
(*j*) CHOWPATI BAND STAND		1,081 9 6		
(*k*) FLORA and WELLINGTON FOUNTAINS and THE QUEEN'S STATUE		380 12 2		
			82,335 4 2	
PUBLIC WORKS (ENGINEER'S DEPARTMENT)—				
I. GENERAL SUPERVISION AND MISCELLANEOUS DUTIES		§ 94,577 9 6		
II. MECHANICAL BRANCH—				
For *A*—Workshops—see page 127				
„ *B*—Maintenance of Compressor Station, Colaba (Shone System)	36,277 9 11			
„ *C*—Maintenance of Love Grove Pumping Station ..	1,62,533 7 1			
„ *D*—Maintenance of Air Compressor Station at Love Grove (Shone System)	1,05,164 6 9			
„ *E*—Maintenance of Storm Water Sluices & working of an Oil Engine & a pump at Worli Sluices...	2,817 6 6			
		3,06,792 14 3		
III. SANITARY—Disposal of Town Sweepings		88,542 3 3		
IV. DRAINAGE—				
A. Miscellaneous Drainage	2,73,007 6 0			
B. Maintenance of Sluices	2,988 13 7			
		2,75,996 3 7		
Public Works (Engr.'s Dept.) *contd.* and carried over Rs.		7,65,908 14 7		
Carried over Rs. ...			16,30,734 2 7	

* Of this, Rs. 39,957-7-11 are charged to Water Works Account.

† Do. Rs. 65,417-4-3 do. do. do.

‡ Includes Rs. 65,910-9-11 on account of Town Duty Refund Establishment.

¶ Or Rs. 1,88,634-5-5 including the Sinking Fund Instalment of Rs. 11,533-12-11 shown in the Sinking Fund investments aggregating Rs. 14,24,064-3-3, *vide* page 127.

§ Of this, Rs. 15,762-14-11 are chargeable to Water Works Account.

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS

ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward, Rs.			1,29,23,964 5 8	2,08,791 10 9
PUBLIC GARDENS—				
VICTORIA GARDENS—				
Sale-proceeds of Plants, Flowers, &c.		5,690 11 0		
Rent of Chawls from Malees, &c.		445 4 0		
Fees for Elephant ride		327 2 0		
Rebate towards the cost of the Maintenance of the Museum Garden		600 0 0		
Fees for Camel ride		148 8 0		
Fees for admittance		931 9 0		
Right of selling refreshments		675 0 0		
Sale-proceeds of cast live-stock		35 0 0		
TRAMWAY RENT			8,851 2 0	
			54,629 14 2	
MISCELLANEOUS FINES AND PENALTIES			43,136 11 4	
MISCELLANEOUS RECEIPTS—				
General Sales Account—				
(*a*) Sale of setforward land	33,688 15 7			
(*b*) Sale of land	28,500 8 0			
(*c*) Concession money for permission to built within the regular line	14,120 0 0			
(*d*) Miscellaneous	7,613 13 11			
		83,923 5 6		
On account of Health Department—				
Rent of Chawls, Milch Cattle Stables and Dhobiwada	79,885 3 4			
Sale-proceeds of land and produce of land	16,395 6 0			
Sale of Bones, Manure and Cowdung Cakes, &c.	3,660 1 6			
Cleaning Drains	13,472 7 1			
Miscellaneous	8,446 13 10			
Recoveries from Military authorities for special halal-khore service rendered to the troops passing through Bombay	13,634 15 1			
		1,35,094 14 10		
On account of Engineer's Department—				
Cleveland Bunder Fees ... Rs. 1,047 10 0				
Other Ground rent ... ... „ 78,706 1 10				
	79,753 11 10			
Right of catching fish, cutting grass, collecting fruits, drawing toddy, &c.	7,359 0 0			
Miscellaneous	13,826 4 0			
		1,00,938 15 10		
On account of Drainage Department—				
Ground rent and Rent of Buildings	301 9 0			
Miscellaneous	3,589 9 8			
		3,891 2 8		
Miscellaneous—				
Sundries		29,217 9 9		
MISCELLANEOUS FEES—			3,53,066 0 7	
Through Assessor and Collector—				
Buttakee, Notice, &c., Fees		4,752 6 0		
Through Executive Engineer—				
Projecting Verandahs, Balconies, &c.	23,366 6 10			
Opening Roads	3,846 0 0			
Scaffoldings	7,148 13 9			
Occupying Public Roads	2,982 8 0			
Sundries	197 4 0			
		37,521 0 7		
Through Health Officer—				
Digging Graves	3,725 14 0			
Removing Dead Animals	6,269 12 0			
Skinning Dead Animals	39,200 0 0			
Supplying copies of Office Records, &c.	1,426 12 0			
Municipal Laboratory Fees	1,138 0 0			
Fees for Vaccine instructions	1,130 0 0			
Fees for vaccinating persons at private places	2,067 12 8			
Fees for admission to the Sanitary Department	130 0 0			
Fees for Clinical Instructions	1,320 0 0			
License Fee for selling milk in the city	1,127 4 0			
		57,535 6 8		
Miscellaneous—				
Supplying copies of Office Records, &c., of different Municipal Departments		538 14 0		
			1,00,347 11 3	
Carried over Rs.			1,34,84,019 13 0	2,08,791 10 9

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1916—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and brought forward ... Rs.			10,30,784 2 7	
PUBLIC WORKS (Engineer's Department)—*contd.* and brought forward... ... ... Rs.		7,65,908 14 7		
V.—WATER WORKS		*3,52,684 15 3		
VI.—STREETS AND BUILDINGS—				
A. Inspection and Supervision	1,99,759 14 10			
B. Public Lighting	4,25,678 11 1			
C. Road Watering	89,727 0 8			
C. I. Oiling and Tarring Roads (experimental) ...	1,02,936 9 0			
D. Roads, footpaths, &c.	6,87,776 12 4			
E. Improvement of Streets	1,32,969 3 3			
F. Miscellaneous—				
Compensation to Municipal staff employed on extricating bodies of persons overwhelmed in the debris of fallen buildings, &c.	84 1 4			
		16,29,932 4 6		
VII.—Cleaning, Lighting and Repairing Port Trust Wharves Roads		43,238 0 0		
			27,91,764 2 4	
NEW WORKS—				
GENERAL SUPERINTENDENCE—				
General Office Establishment—				
Alterations and additions on the fourth floor of the Municipal Office Buildings		396 10 6		
Assessment and Collection Department—				
Providing steel racks in the Assessment Department		1,175 0 0		
Fire Brigade—				
Construction of a temporary Boiler House at Byculla Fire Brigade Station	1,214 12 7			
Paving the horses' stalls and the lascar's quarters at the Byculla Fire Brigade Station	2,306 1 0			
		3,520 13 7		
Public Gardens—				
Improvement in the Zoological portions of the Victoria Gardens	3,566 0 1			
Renovating all the old Ferneries and Conservatories.	2,536 2 5			
Constructing a storm-water drain in the Victoria Gardens	363 1 6			
Construction of Overseer's quarters in the Victoria Gardens	947 12 9			
		7,403 0 9		
Mechanical Branch—				
Construction of a Motor garage at Ormiston Road...	2,071 0 9			
Construction of 80 Semi Permanent Huts for the accommodation of the staff employed at the Love Grove Pumping Station	8,769 12 11			
Installing a 9" Centrifugal pump at the S. W. outlet at Worli with an Oil Engine for driving the pump.	1,018 0 1			
		11,858 13 9		
New Works—*continued* and carried over ... Rs. ...		24,654 6 7		
Carried over Rs. ...			38,22,498 4 11	

* Chargeable to Water Works Account.

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS

ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward. Rs.			1,34,84,019 13 0	2,08,791 10 9
MISCELLANEOUS SAVINGS			9,554 13 1	
CONTRIBUTION from Municipal Servants towards Pension, &c., Fund			41,603 14 5	
INTEREST AND PROFIT on Investments of Surplus Loan and other Balances—				
Loan Funds Investments		† 87,730 6 4		
Surplus Funds Investments		1,88,414 5 10		
PROFIT on the sale of 3½ per cent. Govt. Paper		.....		
			2,76,144 12 2	
PROFIT on Municipal Workshops			13,777 0 3	
SALE-PROCEEDS of Unserviceable Tools, Plant, &c. ...			3,954 1 8	
ACTUAL Profit on Sale of Stores to Contractors			2,015 12 3	
				1,38,31,070 2 10
Carried over ...Rs.				1,40,39,861 13 7

† Includes Rs. 434-12-9 received on the Water Works portion of Loan Funds Investments.

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1916—*contd.*

	Rs. a p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward. Rs.	.....	.....	38,22,498 4 11	
NEW WORKS—*continued* and brought forward ...Rs.	.....	24,654 6 7		
Drainage—				
Miscellaneous Drainage Works	20,978 13 11			
Construction of permanent man-holes over the storm-water drains	2,785 13 10			
Substituting ejectors of 700 gallons capacity in place of the existing ones of 250 gallons in Mazagon No. 2 District	11,044 13 9			
Providing a masonry road side drain at Walkeshwar Road	5,978 3 7			
Replacing the existing stoneware pipe drain by a 12" one in the Government House compound from the upper gate to the sea in Walkeshwar Road ...	69 13 8			
Rebuilding a portion of the wall on the south-east of the Low Level Channel running along Haines Road near Mahaluxmi Race course	3,375 10 0			
Constructing a covered S. W. drain near premises Nos. 471-489 on the East side of Girgaum Road and providing a S. W. concrete covered side drain in Kandewady Lane between Girgaum Road and Sandhurst Street and between Sandhurst Street and Khatarali Lane	10,308 10 8			
Relieving arches at Falkland Road	6,877 7 7			
Laying 9" pipe sewer in Esplanade Road ...	3,966 0 3			
Laying a 9" sewer and raising a 6" drain to the Low Level channel No. II DeLisle Road, near Parbhadevi Road	2,499 12 8			
Laying a 9" pipe sewer in Worli Road	193 12 0			
		67,578 15 11		
Water Works—				
Providing a wire fence at Vehar	.....			
Paving and draining Cattle troughs in various parts of the City	300 8 8			
Extending 6" main in Sewri Road to the 4" main in Parel Tank Road *via* Golanji Hill Road	.....			
Rendering filters at Malabar Hill Reservoir mosquito proof	2,991 9 5			
Laying water mains in the Chowpati Estate	.....			
Providing mosquito proof gauze wire to the ventilators and other openings in the roof of the Malabar Hill Reservoir	543 12 10			
Laying a 6" Main in Forjett Street and Forjett Cross Lane...	383 1 11			
Laying out a garden at Bhandarwada Reservoir ...	.....			
Completing water proofing works at Malabar Hill Reservoir	1,162 5 0			
Rendering reservoirs and filters at Malabar Hill water tight	5,118 12 6			
Purchase of meter-testing appliances and erecting a a meter testing shed at Chinchpokli	872 10 2			
Replacing 3" main in Arthur Road by a 6" one, and extending the same so as to join the 6" main in Kalachowki Road	271 6 3			
Alterations to the outlets from filter Nos. 1 to 6 at the Bhandarwada Reservoir	6,248 3 5			
Laying 6" water main in the portion of Foras Road lying between Lamington Road and Grant Road Station.	3,056 14 4			
Laying 6" main in Matharpakhady Road	2,283 2 6			
Laying 5" main in Champawadi Cross Lane	1,091 1 6			
Extension of the sub-way carrying water mains under the G. I. P. Railway at Arthur Road level crossing near Chinchpokli...	6,152 5 0			
Construction of a new chawl at Kurla for labourers ...	76 8 7			
		* 30,452 6 1		
NEW WORKS—*contd.* and carried over ... ... Rs.		1,22,680 12 7		
Carried over Rs....			38,22,498 4 11	

* Chargeable to Water Works Account.

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS
ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward Rs.				1,40,39,861 13 7
Carried ove Rs ...				1,40,39,861 13 7

(including Transfers) of the BOMBAY MUNICIPALITY for the year March 1916—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward Rs.	.....	.....	38,29,498 4 11	
NEW WORKS—*continued* and brought forward — Rs.	.....	1,22,686 12 7		
STREETS AND BUILDINGS—				
Improvement of Roads, &c., at Bhatia Baug	2,843 6 9			
Filling in the low-lying ground opposite the Arthur Road Hospital	6,096 2 9			
Development of land acquired at Golanji Hill Road for stone department and for the erection of stone breaking and screening machinery	2,932 9 1			
Improving the gradients of Forjett Street	3,802 11 10			
Providing drainage for the proposed washing place for the Biggaries' shed north of Sankli Street and constructing a two-seated latrine on the water carriage system at the Sankli Street Ward Office ...	40 1 0			
Reducing the level of the Road at the junction of Mount Road and Victoria Road and executing auxiliary works	92 7 11			
Reconstructing as an experimental measure with a concrete bottoming covered with Bituminous Macadam the portion of Frere Road in front of the main gates of the Princess Docks from Kalyan Street to Masjid Siding	7,847 1 7			
Shifting 51 Tramway poles in certain roads	2,217 9 0			
Providing a steel framed corrugated iron shed for the stone crushing machinery on the Municipal land at Sewri	327 0 0			
Paving a portion of Frere Road with wooden blocks as an experimental measure	6,047 6 8			
Removing the earth from the excavations for the new Tansa Pipe in Soparibag Road to Arthur Road for filling in low-lying Municipal ground on the Road...	2,624 0 5	34,370 9 0		
SANITARY AND OTHER MISCELLANEOUS WORKS—				
Paving and enclosing dust-bin carts stands	201 6 4			
Extension of Dhobiwada at Mahalaxmi by 50 stones...	1,456 7 5			
Constructing a new hospital for Cattle at Tardeo Flats	6,211 8 1			
Rebuilding of the Wards at the Maratha Hospital ...	1,644 16 8			
Construction of public latrines and urinals	2,762 3 4			
Providing a compound wall at the Worli Cemetery ...	5,142 0 6			
Construction of a Lethal Chamber at Tardeo Flats with quarters for the men	17,647 4 5			
Covering the refuse deposited on the Clerk Road Storm-water Reservoir with earth	1,999 15 9			
Converting the existing privy into a water-closet at premises No. 598, Doongri Street	146 11 7			
Improving the water supply at the Bamnoli N. S. Depot	7 8 0			
Acquisition of land for constructing a bathing place and a disinfecting station at Reay Road	7,500 0 0			
Construction of a septic tank with a hopper at Dharavi near the Sion Station...	5,895 8 6			
Improving the drainage arrangement at Halalkhore's chawl at Sukhlaji Street	2,423 9 5			
Providing gas lights at the Sankli Tank Bullock Hospital	702 6 6			
Constructing a temporary shed in the compound of the Municipal stable at Sukhlaji Street	2,905 13 6			
Consolidating with tar metalling the floor of the Health Department at Arthur Road	1,519 12 2			
Additions and alterations in the Arthur Road Small-pox Hospital	93 1 4			
Covering the refuse deposited at the Mahalaxmi Reclamation with earth	2,099 9 8	60,359 9 2		
NEW WORKS—*contd.* and carried over Rs.		2,17,410 14 9		
Carried over Rs. ...			38,22,498 4 11	

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS
ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward Rs.				1,40,39,861 13 7
Carried over Rs. ...				1,40,39,861 13 7

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1916—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and Brought forward Rs. ...			38,22,498 4 11	
NEW WORKS—*contd.* and Brought forward Rs. ...		2,17,410 14 9		
SANITARY—Disposal of Town Sweepings :—				
Providing 1,000 teakwood Sleepers for shift siding at Kurla Deonar		6,191 9 0		
MARKETS—				
Rebuilding the sheep pens at the Bandora Slaughter Houses	114 15 5			
Paving the compound of A. C. Market	6,245 2 8			
Providing and fixing new-pattern hydrants in the Municipal Markets in lieu of old ones and supplying Morris stand pipes, copper branch pipes with one piece of hose 50 ft. in length with 2½ inch couplings for each market	1,513 14 6			
Construction of a Slaughter House at Arthur Road for killing pigs	1,164 11 11	9,040 12 6		
			2,32,643 4 3	
PUBLIC HEALTH DEPARTMENT—				
I. General Supervision		1,37,266 9 9	(a)	
II. Conservancy Branch—				
Veterinary Establishment...	10 088 13 3			
Other Conservancy Charges ... ... (b) ...	17,60,241 5 1			
		17,70,330 2 4		
III. Markets and Slaughter Houses		1,91,471 1 1		
IV. Registration of Births and Deaths		93,695 3 10		
V. Cemeteries		10,812 2 2		
VI. Laboratory		12,352 9 8		
VII. Mahaluxmi Dhobiwada		18,487 10 6		
VIII. Milch-Cattle Stables and Rooms		6977, 3 8		
IX. Dispensaries		16,118 2 2		
X. Rustomji Jamshetji Dharamshalla, Falkland Road.		589 11 11		
XI. Infectious Diseases		58,158 8 7		
XII. Vaccination		31,618 10 6	(c)	
XIII. Malaria		44,957 2 4	(d)	
XIV. Plague Charges		1,22,911 9 2	(e)	
XV. Lethal Chamber for dogs		575 15 1		
			25,16,322 6 9	
GENERAL STORES—				
Establishment and Contingencies			38,276 13 0	
Primary Education...			4,62,000 0 0	
EDUCATION—				
Prince of Wales Museum	25,000 0 0			
Victoria and Albert Museum	20,000 0 0			
		45,000 0 0		
Other Institutions		36,345 14 10		
			81,345 14 10	
CONTRIBUTION towards the cost of Cadastral Survey of the Town and Island of Bombay...			25,000 0 0	
HOSPITALS, &c.			4,37,810 0 0	
CONTRIBUTION to the City Improvement Trust ...			10,17,420 1 8	
PENSIONS, &c.			1,15,167 5 9	
Carried over Rs. ...			87,48,484 3 2	

(*a*) Includes Rs. 79,783-1-7 on a/c of salaries of Health Officer, Asstt. Health Officers and Deputy Health Officers.

(*b*) Do. „ 36,944-8-6 as shown below :—

		Rs.	a.	p.
(1)	Pay of Sanitary Inspectors and Asstt. Sanitary Inspectors	25,338	2	4
(2)	Charges on a/c of Disinfectants, etc.	11,532	14	2
(3)	Do. do. overcoats to Asstt. Sanitary Inspectors	73	8	0
	Rs.	36,944	8	6

(*c*) Do. „ 7,322-1-2 being the charges on a/c of Animal Vaccination and manufacture of Glycerinated Emulsion.

(*d*) Inclusive of Rs. 2,887-3-0 on a/c of charges for Disinfectants and Quinine Distribution.

(*e*) Do. „ 21,759-7-8 which represent charges for disinfecting houses affected by Plague.

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS - ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward Rs.				1,40,39,861 13 7
Carried over Rs. ...				1,40,39,861 13 7

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1916—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and Brought forward Rs....			87,48,484 3 2	
MISCELLANEOUS—				
Discretional Contingencies		2,656 13 5		
Auditors' Allowance		10,000 0 0		
Local Allowance		70,989 1 7		
Contribution towards the expenses of King George V Anti-Tuberculosis League		10,000 0 0		
Payment of a moiety (not exceeding Rs. 1,500) of the remuneration to be paid to Mr. W. A. Chambers for fixing the rateable value of buildings and lands in the City of Bombay vesting in His Majesty and beneficially occupied		1,500 0 0		
Bonus equivalent to half a month's pay to certain employés of the Health Department for special work done in connection with the conservancy work of Military Camps during the embarkation of the Indian Expeditionary Force		2,884 8 0		
Contribution towards the expenses of publishing a book called "The Milk Problem in Indian Cities" by Dr. L. L. Joshi, Municipal Analyst		1,000 0 0		
			99,030 7 0	
INTEREST ON LOANS		29,86,123 11 11		
Less—				
Shown under Fire Brigade (page 115)		23,880 0 0		
			* 29,62,243 11 11	
CHARGES ON ACCOUNT OF LOANS			† 14,357 6 2	
DEBT—				
INSTALMENTS ON ACCOUNT OF SINKING FUND—				
5 per cent. Municipal Loans		1,93,952 14 8		
4 „ „ „ 3½ per cent. basis ...		2,98,148 9 3		
4 „ „ „ 3 „ „ ...		3,19,911 4 0		
3½ per cent. Municipal Loans		12,049 9 4		
			‡ 8,24,057 5 3	
INSTALMENT ON ACCOUNT OF MUNICIPAL FIRE AND ACCIDENT INSURANCE FUND ...			10,000 0 0	1,26,58,173 1 6
Loan Works (*vide* Appendix No. 9)				28,56,540 0 9
Carried over Rs....				1,55,14,713 2 3

* Includes Rs. 13,76,042-10-4 chargeable to Water Works Account.

† Of this, Rs. 6,104-1-9 are chargeable to Water Works Account.

‡ Of this, Rs. 3,72,284-10-1 are chargeable to Water Works Account.

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS
ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward, Rs.				1,40,39,861 13 7
DEBT—				
70 Lakhs Loan for Tansa Reduplication and other Auxiliary Works (2nd Instalment of 41 Lakhs) ...			1,500 0 0	
20 Lakhs Loan for Street Improvements (2nd Instalment of 14 Lakhs)			14,00,000 0 0	
43 Lakhs Loan for Miscellaneous works			43,00,000 0 0	57,01,500 0 0
Interest, Instalments, premia, Discount, etc., on a/c of Sinking, Fire Insurance, Net Premia and Worn-out Water Mains Renewal Funds—				
Interest and Instalments on a/c of Sinking Fund ...		14,24,064 3 3		
Do. do. Fire Insurance, etc., Funds ...		83,873 3 9		
Premia and Discount on the Investments of 4 per cent. Loans Sinking Fund 3½ per cent. Basis		1,273 12 0		
Do, do. 3½ per cent. do. ...		.....		
Sale proceeds of Water-marked paper		175 8 0		
		15,09,386 11 0		
Premia and *Discount* on the *Investments* of 5 per cent. Loans Sinking Fund	*Dr.* 2,494 6 0	.....		
Do. do. 4 per cent. do. 3 per cent. Basis ...	*Dr.* 689 10 0	*Dr.* 3,184 0 0	15,06,202 11 0	
ADVANCES—				
(*a*)—CASH ADVANCES TO MUNICIPAL OFFICERS... ...			1,31,519 6 9	
(*b*)—INTER-DEPARTMENTAL CHARGES—				
Workshops (Private and Departmental Works) ...		2,72,249 8 0		
Private Works (Engineer's, &c., Departments) ...		1,07,960 11 2		
Departmental Works (do.)		3,38,864 10 11		
			7,19,074 14 1	
(*c*)—ADVANCES TO CONTRACTORS			11,271 0 2	
(*d*)—MISCELLANEOUS			70,173 12 5	
(*e*)—Advances from Surplus Cash Balance for new works to be subsequently provided for under a new loan to be raised			6,93,351 13 0	
(*f*)—RESERVE STOCK—				
Stock	7,70,778 11 9			
Water Works Imprest	2,943 11 3			
Executive Engineer (General)	17,429 2 3			
		7,91,151 9 3		
Surplus and Obsolete Stores		389 10 7		
Stock Adjustment Account		1,881 7 3		
Live Suspense Account		14,967 3 0		
			8,07,439 14 1	
Purchases			7,33,804 1 11	
Sales			1,08,615 15 7	
Carried over ... Rs.				32,74,630 14 0
				2,45,22,195 6 7

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1916—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*continued* and brought forward Rs.				1,55,14,718 2 3
PAID OUT OF THE WORN-OUT WATER MAINS RENEWAL FUND—				
Laying two 6" water main, one on each side of Sandhurst Road between Dongri Street to Chinchbunder Road ...			5,546 13 5	
Laying water mains in B Ward			*Cr.* 515 9 1	
Replacing 8" main in Arthur Road by 6" main and to extend it so as to join the 6" main in Kalachowki Road			431 2 4	
Replacing small service mains in various parts of the city			830 0 0	6,292 6 8
DEBT—				
REPAYMENT—				
Vehar Debt			25,696 12 0	
Drainage Loan of 1878			1,20,000 0 0	1,45,696 12 0
Investment of Sinking Fund and of Interest accrued thereon—				
Sinking Fund Instalments			8,24,057 5 3	
Interest Realizations			6,00,006 14 0	14,24,064 3 3
Discount, Printing, Stamp, etc., charges to be met out of Special Funds—				
Discount, Printing, Stamp, etc., charges to be met out of Net Premia Fund			*62,090 10 11	
Loss or damage sustained by fire or accident to be met out of the Muni. Fire and Accident Insurance Fund ...			† 1,270 0 0	63,360 10 11
ADVANCES—				
(a)—CASH ADVANCES TO MUNICIPAL OFFICERS... ...			1,19,251 2 10	
(b)—INTER-DEPARTMENTAL CHARGES—				
Workshops (Private and Departmental Works) ...		2,96,558 8 1		
Private Works (Engineer's and Health Departments)...		1,02,527 7 5		
Departmental Works (Engineer's Department) ...		3,32,567 13 8	7,31,393 13 2	
(c)—ADVANCES TO CONTRACTORS			11,383 10 1	
(d)—MISCELLANEOUS			67,445 12 6	
(e)—Advances from Surplus Cash Balance for new works to be subsequently provided for under a new loan to be raised			3,85,343 5 10	
(f)—RESERVE STOCK—				
Stock	7,47,098 11 8			
Water Works Imprest	2,027 4 10			
Executive Engineer (General)	17,367 3 0	7,66,493 3 6		
Stock Adjustment Account		320 3 10		
Line Suspense Account		1,168 0 6		
Surplus and Obsolete Stores...		124 3 4	7,68,105 11 2	
Purchases			7,18,666 13 3	
Sales			1,11,239 9 11	29,12,829 14 9
Carried over Rs. ...				2,00,66,957 1 10

* This is made up as follows :—

	Rs. a. p.
Brokerage	5,001 14 0
Printing	73 12 11
Stamp	57,015 0 0
Total Rs. ...	62,090 10 11

† As per details :—

	Rs. a. p.
(1) Cost of constructing a temporary stable at Mahim ...	1,200 0 0
(2) Cost of replacing the Telephone Instrument destroyed in the fire at Mahim stable	60 0 0
(3) Replacing a wooden bench burnt in the fire at Mahim stable	10 0 0
Total Rs. ...	1,270 0 0

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS
ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and brought forward Rs. ...				2,45,22,195 6 7
DEPOSITS—				
(a)—BANK OF BOMBAY ON ACCOUNT OF CONTRACTORS, &c., PAPER DEPOSIT			2,34,500 0 0	
(b)—SURPLUS FUNDS INVESTMENTS—				
Paper Deposit		15,07,401 13 0		
Cash Deposit		73,909 13 11		
Current Account Deposit		21,45,000 0 0		
Fixed Deposit		54,00,000 0 0	91,26,311 10 11	
(c)—LOAN FUNDS—				
Paper Deposit		10,106 4 0		
Cash Deposit		283 8 0		
Current Account Deposit		6,97,571 12 3		
Fixed Deposit		19,50,000 0 0	26,57,961 8 3	
(d)—RESERVE FUNDS—				
1—Municipal Fire and Accident Insurance Fund—				
Paper Deposit	23,341 14 0			
Cash Deposit	30,018 8 8	53,360 6 8		
2—Worn-out Water Mains Renewal Fund—				
Paper Deposit	55,302 8 0			
Cash Deposit	69,737 14 8	1,25,040 6 8		
3—Net Premia, &c., Fund—				
Paper Deposit	1,06,746 9 0			
Cash Deposit	95,064 2 8	2,01,810 11 8		
			3,80,211 9 0	
Bank of Bombay on account of Contractors' Securities held under objection			2,200 0 0	
Investment of Surplus moneys in Government Paper, Municipal Debentures, &c.			.....	
Deposits—carried over Rs. ...			1,24,01,184 12 2	
Carried over Rs. ...				2,45,22,195 6 7

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1916—*contd.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and brought forward Rs.				2,00,66,957 1 10
DEPOSITS—				
(*a*)—Bank of Bombay on Account of Contractors, &c., Paper Deposit			93,900 0 0	
(*b*)—Surplus Funds Investments—				
Paper Deposit		17,79,388 12 0		
Cash Deposit		78,901 12 11		
Current Account Deposit		18,98 946 5 1		
Fixed Deposit		66,00,000 0 0	1,03,52,236 14 0	
(*c*)—Loan Funds—				
Paper Deposit		.....		
Cash Deposit		183 8 0		
Current Account Deposit		7,02,737 15 6		
Fixed Deposit		48,00,000 0 0	55,02,921 7 6	
(*d*)—Reserve Funds—				
1—Municipal Fire & Accident Insurance Fund—				
Paper Deposit	39,500 0 0			
Cash Deposit	30,194 14 8	69,694 14 8		
2—Worn-out Water Mains Renewal Fund—				
Paper Deposit	69,000 0 0			
Cash Deposit	69,909 12 4	1,38,909 12 4		
3—Net premia, &c., Fund—				
Paper Deposit	89,000 0 0			
Cash Deposit	95,092 4 2	1,84,092 4 2	3,92,696 15 2	
Bank of Bombay on account of Contractors' Securities held under objection			2,200 0 0	
Investment of Surplus moneys in Government Paper, Municipal Debentures, &c.			.....	
Bank of Bombay on account of Public monuments, &c.—				
Maintenance of a Charitable Dispensary at Kamathipura opened in the name of late Mr. Rajuna Jalouji			.....	
Deposits—carried over Rs. ...			1,63,43,955 4 8	
Carried over Rs. ...				2,00,66,957 1 10

STATEMENT OF TOTAL RECEIPTS AND DISBURSEMENTS
ending 31st

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and brought forward Rs. ...				2,45,22,195 6 7
DEPOSITS—*contd.* and brought forward Rs.			1,24,01,184 12 2	
Deposits from Contractors, &c.—				
In Cash— Rs. a. p.				
(*a*) From Contractors ... 3,09,155 3 8				
(*b*) „ Private parties received through Departmental Officers. 1,45,479 11 5				
(*c*) Other Deposits 2,65,434 1 10	7,20,069 0 11			
In Government Paper kept in Office	1,02,300 0 0			
In Government Paper lodged at the Bank of Bombay	93,900 0 0			
On account of works performed for private parties.	84,795 8 9			
		10,01,064 9 8		
Government of Bombay on account of Income Tax...		28,770 15 4		
Profit on Sale of Stores	10,679 8 9			
Miscellaneous Receipts, Stores Department—Supervision Charges on Stores sold	1,089 2 11			
		11,768 11 8		
Court Attachments		2,722 15 7		
Interest realized on Government, &c., paper lodged by the Municipal Employés, Contractors, &c. ...		5,059 6 7		
(Government of Bombay) Land Conveyance, Licenses, &c.—				
Through Chief Accountant on account of License Fees, Badges, &c.		19,517 11 0		
Securities withdrawn from the Bank of Bombay for sale (kept in office)	.....			
Paper Deposits from Municipal Employés and Contractors pending submission to the Bank of Bombay (kept in office)	88,400 0 0			
Government of Bombay—Expenses for sending indigent persons to the Pasteur Institute at Karauli or Coonoor	.....			
Deposit for the maintenance of a charitable Dispensary at Kamatipura opened in the name of late Mr. Rajuna Jalooji	.....			
Cash Deposits received with Tenders on account of 41 Lakhs Loan of 1914	.....			
		88,400 0 0		
			11,57,304 5 10	
Cheques Payable			2,68,92,283 12 1	
				4,04,50,772 14 1
			Total Rs.	6,49,72,968 4 8

W. E. WAITE,
Chief Accountant.

(including Transfers) of the BOMBAY MUNICIPALITY for the Year March 1916—*concld.*

	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
MUNICIPAL FUND—*contd.* and brought forward Rs. ..				2,00,66,957 1 10
DEPOSITS—*contd.* and brought forward Rs. ...			1,63,43,955 4 8	
Deposits from Contractors, &c.—				
In Cash— Rs. a. p.				
(a) From Contractors 4,53,371 6 1				
(b) „ private parties received through Departmental Officers. 1,52,548 2 5				
(c) Other Deposits 1,94,415 4 1				
	8,00,334 12 7			
In Government Paper kept in Office	92,100 0 0			
Do. lodged with the Bank of Bombay...	2,34,500 0 0			
On account of works performed for private parties...	58,901 6 8			
		11,86,336 3 3		
Government of Bombay on account of Income Tax ...		28,300 0 11		
Profit on Sale of Stores	2,015 12 3			
Miscellaneous Receipts, Stores Department—Supervision Charges on Stores sold	162 12 8			
		2,178 8 11		
Court Attachments		2,557 11 3		
Interest realized on Government, &c., Paper lodged by the Municipal Employés, Contractors, &c.		5,059 6 7		
(Government of Bombay) Land Conveyance Licenses, &c.—				
Through Chief Accountant on account of License Fees, Badges, &c....		21,103 15 0		
Securities withdrawn from the Bank of Bombay for sale (kept in office)	.....			
Paper Deposits from Municipal Employés and Contractors pending submission to the Bank of Bombay (kept in office)	83,900 0 0			
Government of Bombay Expenses for sending indigent persons to the Pasteur Institute at Kasauli or Coonoor	.....			
Cash Deposits received with Tenders on account of 4½ Lakhs Loan of 1914	30 0 0			
		83,930 0 0		
			13,29,465 13 11	
Contribution from Government towards the cost of Primary School Buildings and their sites			.....	
Cheques Payable			2,69,06,592 0 4	
				4,45,80,013 2 11
				6,46,46,970 4 9
Cash Balance (in Bank and Office Treasuries) on 31st March 1916				3,25,997 15 11
			Total ...Rs.	6,49,72,968 4 8

S. M. EDWARDES,
Municipal Commissioner.

Appendix

STATEMENT showing the principal liabilities on account of Street Improvements incurred at rates finally made

Name of the Party.	Locality.	Actual area acquired.	As originally	
			Rate per square yard.	Compensation for Land.
		Sq. yds.	Rs. a. p.	Rs. a. p.
Mr. Manekji Shapurji Kapadia, Ratanbai Adarji Dubash, Ardeshir Shapurji Kapadia, Dossabhai Ardeshir Zaveri and Nawroji Dossabhai Kapadia.	Abdul Rehman Street...	7·10	125 0 0	887 8 0
„ Nowroji Hormusji Mistri	Junction of Gowalia Tank Road and Hughes Road.	64·86	40 0 0	2,594 6 5
„ Vallabhadas Hemraj	Girgaum Back Road	12·56	40 0 0	502 6 5
Mrs. Elvira DeLima	Mount Road	186·20	10 0 0	1,862 0 0
Mr. Byramji H. Warden and others through Messrs. Crawford Brown & Co.	Love Grove Pumping Station Road ...	461·00	3 0 0	1,383 0 0
„ Fulchand Motilal	1st Fanaswadi Lane	104·41	30 0 0	3,132 4 10
„ Shivnarayan Surajmal Nemani ...	Thakurdwar Road	43·73	30 0 0	1,311 14 5
„ Abdul Razak Haji Rahimtulla, Mr. Abdul Latiff Haji Rahimtulla, a minor by his guardian Bai Fatmabai, widow of Rahimtulla Haji Dawood.	Mahim Bazar Road	48·89	4 0 0	195 8 11
„ Haji Karmalli Mahomed Jaitha ...	Worli Road	423·02	2 0 0	846 0 8
„ Dwarkadas Gordhandas	Dockyard Road	480·49	8 0 0	3,843 14 9
„ Bachoo Mahomed Tharu	Mahim Bazar Road	98·32	4 0 0	393 4 6
Bai Nawajbai Cawasji Kotwal	3rd Agiary Lane	5·50	30 0 0	165 0 0
Mr. Mahomed Hassam Punjabi	Junction of *Dhunji* St. and 3rd Agiary St.	17·40	40 0 0	696 0 0
Bai Hamabai Framji Petit	Meadows Street	4·0	100 0 0	400 0 0
„ Daibai, widow of Munmohandas Lakhmidas.	Bhuleshwar Road	9·31	200 0 0	1,862 0 0
Messrs. (1) Kharshedji D. Shroff, (2) Bapuji Dossabhai Patel, (3) Meherbai, wife of Kharshedji D. Shroff, (4) Pirozsha Cooverji Umrigar, (5) Merwanji Rustomji Vakharia and (6) Sorabji Edulji Warden, Executors of the late Ratanbai widow of Bamanji Beheramji Patel.	Mori Road	23·98	5 0 0	119 14 5
Messrs. Gulam Husein Thaverbhoy and Abdul Husein Thaverbhoy.	Sewri Road	68·69	4 0 0	274 12 2
Bai Bibibai daughter of Ahmedbhai Poonja.	Mahim Bazar Road	65·25	4 0 0	261 0 0
Messrs. Abraham Joseph Talkar, Isac Joseph Talkar and Jacob Joseph Talkar.	Umerkhadi 2nd Row...	154·73	25 0 0	3,868 4 0
Bai Kashibai widow of Nagardas Permanandas.	Bhuleshwar Road	21·35	112 0 0	2,391 3 2
	Total ...	2,300·79	.....	26,990 6 8

	As originally proposed.	As subsequently sanctioned and paid.	
	Rs. a. p.	Rs. a. p.	
Average rate per square yard for compensation for land	11·73 or 11 11 8	16·70 or 16 11 2	
Do. do. do. structure	2·62 or 2 9 11	3·14 or 3 2 3	
Do. do. do. total amount ...	14·35 or 14 5 7	19·84 or 19 13 5	i.e., 38·25 per cent
Do. do. do. on interest, &c. ...	.....	·81 or 0 12 11	i.e., 5·64 per cent
Do. do. do. on total amount as finally paid.	—	20·65 or 20 10 4	i.e., 43·89 per cent

W. E. WAITE,
Chief Accountant.

No. 14.

originally sanctioned and at rates which were subsequently increased and on which payments were during 1915-16.

PROPOSED.		AS SUBSEQUENTLY SANCTIONED AND PAID.				REMARKS.
Compensation for Structure.	Total.	Rate per square yard.	Compensation for Land.	Compensation for Structure.	Total.	
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
271 0 0	1,158 8 0	240 0 0	1,704 0 0	271 0 0	1,975 0 0	
297 0 0	2,891 6 5	50 0 0	3,243 0 0	297 0 0	3,540 0 0	
45 0 0	547 6 5	45 0 0	555 3 2	87 0 0 * 34 0 9	686 3 11	* Interest at 6 per cent. per annum on Rs. 553-7-7 from 4-7-14 to 17-6-15.
705 0 0	2,567 0 0	15 0 0	2,793 0 0	704 0 0 ** 420 1 5 † 143 5 0 ‡ 51 0 0	4,111 6 5	** Interest at 6 per cent. per annum on Rs. 3,411-14-9 from 7-4-13 to 6-5-14 and from 21-8-14 to 9-8-15. † Court costs. ‡ Professional costs.
.....	1,383 0 0	6 0 0	2,766 0 0	¶ 267 9 4 †† 144 13 0 ‡‡ 90 0 0	3,268 6 4	¶ Interest at 6 per cent. per annum on Rs. 2,758-15-6 from 15-1-14 to 27-8-15. †† Court costs. ‡‡ Professional costs.
.....	3,132 4 10	35 0 0	3,654 5 7	.....	3,654 5 7	
.....	1,311 14 5	40 0 0	1,749 3 2	.....	1,749 3 2	
54 6 0	249 14 11	7 0 0	342 3 8	49 0 0	391 3 8	
.....	846 0 8	3 0 0	1,269 1 0	.....	1,269 1 0	
1,390 0 0	5,233 14 9	10 0 0	4,804 14 5	1,100 0 0	5,904 14 5	
52 3 0	445 7 6	7 0 0	688 3 10	52 3 0	740 6 10	
383 0 0	548 0 0	50 0 0	275 0 0	383 0 0	658 0 0	
.....	696 0 0	50 0 0	870 0 0	.....	870 0 0	
.....	400 0 0	115 0 0	460 0 0	*** 31 2 6	491 2 6	*** Half the court costs.
743 0 0	2,605 0 0	250 0 0	2,327 8 0	743 0 0	3,070 8 0	
203 0 0	322 14 5	6 0 0	143 14 1	246 0 0	389 14 1	
.....	274 12 2	5 0 0	343 7 2	.....	343 7 2	
101 8 0	362 8 0	7 0 0	456 12 0	.....	456 12 0	
1,789 0 0	5,657 4 0	30 0 0	4,641 14 5	1,789 0 0	6,430 14 5	
.....	2,391 3 2	250 0 0	5,337 8 0	1,500 0 0 ‖ 610 11 2 § 67 2 6	7,515 5 8	‖ Interest at 6 per cent. per annum on Rs. 6,540-10-5 from 26-3-14 to 14-10-15. § Half the court costs.
6,034 1 0	33,024 7 8	.....	38,485 2 6	(a) 9,031 0 8	(a) 47,516 3 2	(a) Includes Rs. 1,859-13-8 for interest, court cost, &c.

S. M. EDWARDES,
Municipal Commissioner.

Appendix

Income of the Bombay Municipality from the year 1865

TAXATION PROPER.

Year.	Gross Valuation.	House Rate.	Police Rate.	Lighting Rate.	Wheel Tax and Tolls.	Licenses for trades, Land Conveyances, Music, etc.	Town Duties.	Liquor Licenses.	Tobacco Licenses.		Contribution from Insurance Companies or Fire Tax.
1865	Rs. 1,29,14,655	Rs. 10,57,329	Rs.	Rs.	Rs. 2,32,698	Rs. 2,023	Rs. 5,04,789	Rs. 1,45,873	Rs.	....	Rs. ...
1866	1,48,94,893	7,16,004	2,93,683	98,417	2,13,330	2,72,655	5,132	46,924	1,20,390	....	....
1867	1,63,09,535	9,84,068	4,41,040	1,89,849	2,28,178	2,05,536	....	1,04,808	1,16,428	....	....
1868	1,47,49,075	9,20,587	3,75,607	2,46,071	2,68,814	2,08,820	....	1,20,566	1,36,762	....	....
1869	1,39,41,260	7,99,306	2,59,583	2,48,406	2,57,574	1,60,351	3,03,298	2,49,077	1,51,178	....	....
1870	1,36,20,885	7,22,783	2,37,543	2,46,994	2,60,981	28,147	5,94,989	1,23,892	1,39,830	....	....
1871	1,34,26,845	6,75,489	2,30,409	2,30,256	2,05,521	7,655	4,51,486	1,15,170	1,28,046	....	....
1872	1,29,33,510	7,08,983	2,41,774	2,41,348	2,04,097	5,802	4,67,638	59,914	1,47,654	....	....
1873	1,26,71,816	7,01,013	2,37,282	2,37,050	2,16,053	87	4,46,924	2,79,074	1,48,792	....	....
1874	1,19,85,390	5,94,814	2,29,102	2,27,625	2,48,217	3,908	4,85,649	1,24,507	1,47,779	....	16,519
1875	1,15,55,066	5,52,738	2,20,569	2,16,632	2,45,374	594	6,72,987	1,58,980	1,43,956	....	14,355
1876	1,12,78,710	5,73,488	2,17,681	2,13,094	2,38,487	2,113	6,36,147	1,41,725	1,48,356	....	13,932
1877	1,14,77,690	5,47,541	2,20,061	2,14,670	2 44,369	1,948	7,51,019	85,697	1,49,962	....	19,164
		Consolidated Rate.									
1878	1,16,37,118	....	9,35,034	....	2,14,560	....	6,95,006	1,60,565	1,52,249	....	22,573
1879	1,14,93,417	....	10,52,773	....	2,35,589	3,563	5,38,617	1,43,750	1,65,029	....	20,761
1880	1,17,82,525	....	8,99,534	....	2,31,925	846	6,87,784	1,43,750	1,61,127	....	23,911
1881	1,17,14,470	@8%	10,58,819	....	2,31,866	1,502	8 37,482	1,43,750	1,61,625	....	24,089
					For 15 months, i.e., from 1st January 1882 to 31st March 1883, the calendar year						
1882-83	1,25,80,263	....	12,34,975	....	4,12,027	....	8,17,199	1,43,750	2,06,014	....	32,000
1883-84	1,45,64,507	@8%	9,83,693	....	2,55,227	3,417	6,67,113	1,79,687	1,74,806	....	24,708
1884-85	1,53,82,744	Do.	11,80,307	....	3,09,552	4,305	7,73,431	1,43,750	1,72,622	....	25,517
1885-86 .. .	2,00,25,223	Do.	14,61,305	....	3,32,185	4,825	6,79,293	1,43,750	1,79,177	.. .	29,914
1886-87	2,16,27,230	@8½%	14,88,867	....	3,19,861	3,913	10,12,142	1,43,750	1,90,250	....	29,778
1887-88	2,27,92,346	@8%	14,07,013	....	3,36,993	4,050	9,95,750	1,43,750	1,84,168	(a) Fire tax	37,857
1888-89	2,39,51,043	Do	14,66,024	....	3,14,571	45,471	7,25,897	1,43,750	1,91,297	@½%	34,708
1889-90	2,73,64,359	Do.	15,82,509	....	3,25,616	52,792	6,67,965	1,43,750	1,90,932	....	(a) 79,187
1890-91	2,82,27,855	Do.	15,64,932	....	3,56,648	60,451	9,79,520	1,42,750	1,80,284	@3%	1,25,345
1891-92	2,85,80,028	Do.	17,55,081	....	3,42,973	75,101	8,40,322	1,43,750	1,86,151	Do.	1,64,263
1892-93	2,64,03,852	Do.	17,73,501	....	3,44,905	79,376	9,73,928	1,43,750	1,86,703	Do.	1,65,838
1893-94	2,69,79,738	Do.	17,49,321	....	3,51,175	85,817	8,97,266	1,43,750	1,86,829	@3½%	1,10,504
1894-95	2,76,13,741	Do	17,49,385	....	3,56,082	95,137	8,88,842	1,43,750	2,05,343	Do.	1,09,325
1895-96	2,82,56,891	Do	17,67,000	...	3,65,925	96,335	9,10,851	1,43,750	2,17,475	Do.	1,10,487
1896-97	2,89,27,618	Do.	17,46,829	...	2,46,681	74,085	6,45,144	1,43,750	1,82,887	Do.	1,09,138
1897-98	2,94,83,805	Do.	19,25,325	....	3,46,838	88,663	9,51,494	1,43,750	1,89,323	Do.	1,20,961
1898-99	2,98,53,636	@9%	21,06,995	....	3,39,197	87,754	11,17,161	1,43,750	2,08,544	Do.	1,17,219
1899-1900 ..	3,05,17,091	@12%	28,74,389	....	3,02,748	90,346	15,94,721	1,43,750	2,21,338	Do.	1,20,127
1900-1901 ..	3,13,75,106	Do.	28,94,971	....	3,21,366	93,702	11,31,371	1,43,750	2,16,939	Do.	1,20,547
1901-02	3,18,11,625	@10%	25,72,001	....	3,40,747	92,733	8,03,123	1,43,750	2,33,065	Do.	1,27,870
1902-03	3,18,91,400	Do.	25,81,510	....	3 71,013	1,02,070	12,19,346	1,43,750	2,46 092	Do.	1,29,049
1903-04	3,44,49,539	Do.	27,64,974	....	3,88,070	1,05,511	11,68,973	1,43,750	2,40 064	Do.	1,38,163
1904-05	3,54,15,934	Do.	30,26,572	.....	4,19,587	1,03,272	14,16,943	1,43,750	2,60,744	Do.	1,51,302
1905-06	3,81,90,177	@8½%	27,55,778	....	4,48,343	99,923	11,68,450	1,43,750	2,72,779	@2%	1,20,057
1906-07	4,14,48,901	Do.	29,88,945	....	4,42,749	1,03,221	13,34,074	1,43 750	2,65,828	Do.	1,28,631
1907-08	4,42,79,940	@8%	29,74,817	....	4,28,892	1,06,284	13,90,203	1,43,750	2,80,355	Do.	1,39,329
1908-09	4,68,75,766	Do.	31,47,349	....	4,79,857	1,19,278	12,96,320	1,43,750	2,76,820	Do.	1,47,522
1909-10	4,94,44,987	@9½%	38,05,916	....	5,01,653	97,764	14,23,491	1,43,750	2,90,014	Do.	1,63,267
1910-11	5,20,51,478	@10½%	43,61,660	....	4,73,198	99,314	16,86,660	1,43,750	2,59,907	@3%	2,15,094
1911-12	5,36,09,464	Do.	47,43,693	....	4,69,487	1,13,777	13,47,087	1,43,750	2,78,898	Do.	2,33,627
1912-13	5,51,71,773	Do.	47,18,833	....	5,23,522	1,21,773	17,49,181	1,43,750	2,83,526	Do.	2,33,029
1913-14	5,79,47,463	@9½%	46,41,022	....	5,01,500	1,29,771	17,20,637	1,43,750	2,91,283	Do.	2,44,283
1914-15	5,99,41,390	Do.	48,49,431	....	5,19,818	1,27,640	9,32,310	1,43,750	2,92,038	@3½%	1,92,019
1915-16	6,34,16,191	Do.	52,31,257	....	5,18,773	1,27,587	20,19,097	1,43,750	3,04,644	Do.	2,06,494

W. E. WAITE,
Chief Accountant.

No. 15.

to close of the financial year 1915-1916.

Total Taxation Proper.	Services rendered.		Total services rendered.	Miscellaneous.		Total Income.	Year.	Population by Census.	Incidence of taxation per head of population.	Five years' average annual income.
	Halalkhore Tax.	Water Tax.		Government contribution for Police and City Improvement Trust.	Returns from Property and Miscellaneous.					
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.			Rs. a. p.	
19,42,762	....	1,78,719	1,78,719	....	2,42,306	23,63,787	1865	8,15,563	2 9 6	
18,66,545	1,99,352	6,49,121	8,41,973	....	2,06,154	29,14,672	1866	....	3 5 1	
22,44,905	1,45,824	3,73,006	5,18,830	1,50,060	1,26,789	30,40,524	1867	....	3 6 1	31,12,976
22,76,927	2,91,454	4,08,377	8,89,831	2,60,129	4,25,787	38,52,674	1868	....	3 14 0	
24,16,778	2,30,562	3,62,998	5,93,560	1,09,882	2,71,011	33,93,226	1869	....	3 11 0	
23,44,659	2,13,197	3,66,986	5,80,183	1,09,882	2,78,025	33,07,749	1870	.....	3 9 3	
20,44,042	1,99,986	3,57,578	5,57,564	....	2,69,554	28,71,160	1871	. ..	3 2 11	
20,78,240	2,17,071	4,07,835	6,24,906	....	3,45,185	35,48,331	1872	6,44,405	4 3 1	31,06,534
20,66,275	2,00,590	4,00,639	6,01,229	....	4,56,604	33,24,108	1873	.....	4 7 2	
20,78,020	1,92,235	3,63,087	5,55,322	....	3,47,980	29,81,322	1874	....	4 1 4	
22,28,085	1,94,215	3,00,212	4,94,427	90,000	3,31,014	31,43,526	1875	....	4 3 7	
21,84,986	2,04,077	3,08,377	5,12,454	90,000	3,90,283	31,77,723	1876	....	4 2 11	
22,24,031	2,01,299	3,11,823	5,13,122	90,000	4,04,299	32,41,452	1877	....	4 4 2	33,09,805
21,79,968	1,96,380	2,92,780	4,89,160	90,000	3,87,025	31,45,153	1878	....	4 2 2	
21,45,062	2,42,015	3,54,798	5,96,813	90,000	5,09,299	33,41,174	1879	....	4 4 0	
21,18,977	2,03,047	3,90,703	5,93,750	75,000	4,64,173	32,81,870	1880	....	4 3 4	
22,59,084	2,81,805	5,24,819	8,06,624	50,000	7,57,976	38,73,694	1881	7,73,196	3 15 5	
being changed to the financial year, the income was as follows:—										29,37,843
28,45,365	3,28,916	6,70,677	9,99,593	91,125	6,75,575	46,12,240	1882-83	....	4 15 6	
22,87,926	2,43,357	5,47,547	7,91,204	85,672	5,72,400	37,37,272	1883-84	....	3 15 8	
26,33,967	2,89,616	5,96,123	8,85,739	90,000	6,54,162	42,13,868	1884-85	....	4 7 9	
28,30,449	3,16,787	6,65,370	9,82,157	90,000	5,71,367	44,73,973	1885-86	....	4 14 10	
31,38,299	3,18,630	7,74,651	10,93,281	....	6,20,214	49,01,814	1886-87	....	5 8 7	
31,10,581	3,72,268	8,83,724	12,55,992	....	7,99,967	51,66,540	1887-88	....	5 10 4	49,70,136
29,21,713	3,90,039	9,63,804	13,53,843	....	6,90,632	49,66,188	1888-89	....	5 8 5	
30,41,841	4,73,919	11,23,006	15,96,925	....	7,03,403	53,42,169	1889-90	....	5 15 11	
34,10,930	5,27,222	11,49,198	16,76,420	....	(a) 10,78,881	61,65,901	1890-91	....	6 9 3	
35,07,542	5,55,877	11,81,429	17,37,306	....	9,88,335	62,33,183	1891-92	8,21,764	6 6 1	
36,88,001	6,22,300	14,07,081	20,29,381	....	9,75,461	66,72,943	1892-93	....	6 14 11	64,74,819
35,24,652	5,82,026	13,86,228	19,68,854	....	(b) 13,69,189	67,62,695	1893-94	.....	6 9 0	
35,47,569	6,81,557	13,88,265	20,69,822	....	9,21,981	65,39,372	1894-95	....	6 13 4	
36,11,373	6,67,812	14,42,895	21,00,707	....	(c) 10,49,630	67,61,710	1895-96	....	6 15 2	
31,47,434	6,88,486	13,98,410	20,86,896	....	9,74,586	62,08,976	1896-97	....	6 5 10	
37,76,284	7,35,485	13,29,852	20,65,337	....	(d) 13,03,939	71,45,560	1897-98	....	7 1 8	72,21,595
41,30,620	7,13,122	15,00,970	22,14,092	....	8,27,199	71,61,911	1898-99	....	7 11 4	
53,47,419	7,25,264	17,72,967	24,98,231	....	9,84,167	88,29,817	1899-1900	....	9 8 9	
49,24,736	7,14,440	17,35,635	24,50,075	....	10,28,037	84,02,848	1900-01	....	8 15 7	
43,71,989	7,88,439	15,47,120	23,35,559	....	10,69,181	77,36,729	1901-02	7,76,006	8 10 3	
47,90,830	7,95,984	15,13,976	23,09,960	....	10,74,298	81,75,088	1902-03	....	9 2 4	64,32,809
48,59,505	8,10,610	15,71,666	23,82,176	....	11,40,944	84,82,625	1903-04	....	9 7 4	
55,22,670	8,75,194	17,14,453	25,89,647	....	12,23,794	93,36,111	1904-05	....	10 7 3	
50,06,080	9,32,655	18,57,786	27,90,435	....	12,96,024	90,92,539	1905-06	....	10 0 9	
53,76,598	9,91,362	19,38,429	29,29,791	....	13,42,112	96,48,501	1906-07	9,77,822	8 7 10	
54,64,330	10,46,874	19,46,830	29,95,704	....	14,29,290	98,89,324	1907-08	....	8 10 5	1,00,26,055
56,12,986	11,19,322	20,04,189	31,23,511	....	15,49,671	1,02,86,048	1908-09	....	8 14 11	
64,16,245	11,92,346	20,11,786	32,04,134	....	15,93,485	1,12,13,864	1909-10	....	9 13 5	
72,38,583	12,32,951	19,95,327	32,28,278	....	17,29,288	1,21,96,149	1910-11	9,79,445	10 11 0	
72,99,327	12,92,697	20,79,120	33,71,817	....	20,54,645	1,26,55,789	1911-12	....	10 13 2	
77,66,564	13,50,933	21,70,946	35,21,781	....	14,53,244	1,27,41,589	1912-13	....	11 8 5	1,25,76,672
77,42,246	13,85,128	22,35,434	36,70,562	....	14,63,693	1,28,76,501	1913-14	....	11 10 5	
79,57,093	14,17,648	22,15,012	36,33,660	....	(e) 17,22,703	1,24,13,366	1914-15	....	10 14 8	
85,51,609	14,68,837	23,28,021	37,91,698	....	14,87,860	1,38,31,076	1915-16	....	12 9 8	1,33,31,076

(a) Includes Rs. 2,32,544 for arrear recoveries for work done.

(b) Rs. 4,58,699 adjusted on account of premia on loans.

(c) Includes premia of Rs. 97,749 on loan raised.

(d) Includes rebate of Plague expenses amounting to Rs. 4,37,055.

(e) Exclusive of the amount of interest realized on Sinking and Special Funds which was hitherto treated as Income.

S. M. EDWARDES,
Municipal Commissioner.

Appendix

Expenditure of the Bombay Municipality from the

Year.	General Superintendence.	Assessment and Collection.	Fire Brigade.	Public Works (Engineering) Department.	Public Health Department.	General Stores.	Pensions and Gratuities.	Police Charges.	Education.	Medical Relief.	Debt.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1865	94,354	1,26,472	Not traceable.	31,52,732	8,15,914	Not traceable.	345	1,41,931	....	....	....
1866	1,31,622	58,638		13,32,917	14,40,293		14,430	3,96,169	....	....	20,554
1867	61,337	71,531		17,38,626	14,26,321		3,580	4,25,423	....	....	73,860
1868	70,990	87,602	22,708	12,29,594	10,45,862	9,012	3,733	4,17,083	....	....	2,19,977
1869	1,09,879	1,25,691	23,318	12,51,429	8,57,425	8,312	5,634	3,25,637	....	....	2,81,368
1870	1,32,203	1,12,498	30,896	13,75,897	8,29,784	8,046	10,354	4,24,905	....	....	4,46,187
1871	1,22,853	1,12,851	31,261	16,11,527	7,84,485	6,482	7,758	5,90,879	7,948	....	4,75,704
1872	1,15,930	1,38,354	34,435	12,83,987	7,61,854	*	7,221	3,27,209	9,821	....	2,52,971
1873	1,16,575	1,41,908	20,546	10,70,919	7,96,860	*	6,996	3,40,892	10,000	....	5,06,270
1874	1,11,860	1,29,023	25,316	10,43,829	7,38,139	*	8,030	3,44,326	10,000	....	5,09,023
1875	1,13,902	1,36,708	20,963	9,90,091	7,42,953	*	18,691	3,52,920	10,000	36,000	7,15,561
1876	1,09,189	1,42,287	37,754	9,70,195	7,07,681	....	31,187	3,57,734	10,000	36,000	7,09,127
1877	1,10,184	1,43,672	24,193	8,96,548	7,49,550	....	8,301	3,54,535	10,000	36,000	6,27,792
1878	1,15,597	1,44,467	27,517	8,13,057	7,90,461	....	6,008	3,61,581	15,000	36,000	5,86,223
1879	1,21,997	1,34,372	23,920	8,35,687	8,04,295	....	12,084	3,64,304	17,000	36,000	6,01,903
1880	1,28,493	1,37,736	24,800	8,38,191	*7,52,410	....	7,749	3,59,166	17,500	36,000	6,42,880
1881	1,28,951	1,52,107	29,242	9,16,699	7,98,021	....	8,658	3,57,752	17,500	20,435	7,47,209
											For 15 months from 1st January 1882 to 31st March 1883, the calendar
1882-83	1,82,715	1,87,858	73,665	14,01,108	10,14,785	....	12,803	4,54,084	28,125	34,949	12,28,882
1883-84	2,01,021	1,48,317	55,389	10,55,338	9,16,316	....	40,333	2,62,508	22,500	27,832	8,12,061
1884-85	1,85,258	1,64,917	64,977	11,51,551	9,19,987	....	23,293	3,61,748	22,500	34,512	7,87,508
1885-86	1,66,827	1,84,717	43,854	12,34,529	9,95,497	....	18,318	3,59,233	23,700	31,349	7,87,527
1886-87	1,73,090	2,17,134	70,904	13,03,359	10,10,118	....	19,133	2,61,914	32,604	48,386	8,93,553
1887-88	1,70,945	2,12,138	69,670	16,64,393	10,75,735	....	30,531	2,61,348	1,34,715	40,753	23,27,682
1888-89	1,69,223	1,98,820	1,12,228	14,91,041	11,56,410	....	19,470	2,59,140	50,932	36,857	14,90,115
1889-90	1,77,133	1,92,643	93,907	13,82,241	11,96,577	....	29,139	2,58,285	60,358	35,246	14,85,711
1890-91	1,82,198	2,23,854	1,29,291	15,92,034	13,02,064	....	32,117	2,58,285	68,646	38,601	15,52,139
1891-92	1,91,028	2,41,902	88,671	15,99,073	12,92,599	....	33,890	2,58,285	80,722	50,284	16,37,405
1892-93	1,90,920	2,52,123	1,47,694	17,72,512	13,01,563	....	29,845	2,62,625	87,565	49,576	21,97,333
1893-94	2,29,517	2,42,413	1,06,315	15,41,703	13,39,614	....	37,500	3,30,272	88,015	52,476	21,27,457
1894-95	2,11,621	2,47,771	1,14,144	16,67,335	13,70,168	....	46,388	3,74,022	87,290	61,456	20,26,571
1895-96	1,99,317	2,40,990	1,15,991	17,31,317	13,75,224	....	48,462	5,01,096	88,481	56,260	21,19,651
1896-97	1,99,641	2,43,159	1,07,654	15,55,649	14,09,807	....	58,601	5,51,589	88,889	53,101	20,36,129
1897-98	2,14,792	2,50,483	1,18,508	16,10,387	15,86,883	....	70,096	5,90,000	1,02,624	54,282	22,60,571
1898-99	2,10,380	2,57,162	1,09,076	14,19,617	15,69,174	....	56,866	5,01,013	1,14,776	55,291	24,31,128
1899-1900	1,97,643	2,72,850	1,17,098	16,01,898	20,30,444	....	66,084	5,00,000	1,11,990	54,997	23,40,369
1900-01	2,28,044	3,26,719	1,18,639	17,01,178	21,68,479	....	75,929	6,02,455	1,11,980	58,977	25,03,811
1901-02	2,18,036	2,94,004	1,21,728	15,71,497	20,07,064	....	55,440	5,00,022	1,12,513	57,000	26,56,576
1902-03	2,16,767	2,92,339	1,10,182	15,90,956	20,05,929	....	66,852	5,07,504	1,10,474	55,290	27,11,361
1903-04	2,34,089	2,99,459	1,24,113	16,65,761	19,79,374	....	57,497	5,00,381	1,12,859	54,925	29,18,864
1904-05	2,29,315	3,18,017	1,34,282	18,81,039	18,46,402	15,904	74,334	5,01,076	1,59,763	57,000	28,23,568
1905-06	2,43,808	3,24,580	1,23,986	19,54,844	19,91,160	19,269	71,778	5,00,000	1,61,430	57,606	29,82,971
1906-07	3,06,306	3,29,331	1,28,015	19,39,665	21,46,791	27,369	75,808	5,01,362	1,65,815	56,918	31,77,715
1907-08	2,59,564	3,66,403	1,69,574	21,17,200	22 87,706	31,836	74,895	1,28,450	2,65,250	4,50,181	32,26,943
1908-09	2,71,046	3,73,684	1,71,929	23,92,891	24,34,002	29,456	65,623	....	2,76,685	4,64,535	33,08,247
1909-10	3,09,102	3,69,460	1,66,968	23,86,781	23,64,080	30,859	69,817	....	2,93,256	4,62,579	33,77,784
1910-11	2,89,088	3,85,546	1,88,097	24,16,882	21,03,537	31,068	84,294	....	4,17,124	4,64,416	35,07,569
1911-12	2,93,609	3,75,204	1,79,978	24,87,760	21,40,626	33,054	86,701	....	4,20,511	4,72,858	37,14,629
1912-13	3,14,525	4,40,506	2,27,304	26,52,634	23,15,541	34,069	96,913	....	4,18,511	4,46,160	39,43,397
1913-14	3,11,689	4,41,694	1,66,104	29,41,742	23,09,128	35,094	1,07,499	....	4,86,285	4,61,840	34,34,230
1914-15	3,12,576	4,16,898	1,85,577	30,09,430	23,15,264	36,771	1,11,204	....	5,02,224	4,39,260	37,52,262
1915-16	3,19 660	4,51,638	1,93,455	30,13,184	23,93,411	38,277	1,16,167	....	5,43,346	4,37,810	39,34,821

* Combined with Controller's Office.

W. E. WAITE,
Chief Accountant.

No. 15 (A).

year 1865 to the year 1915-1916.

Contribution to the Bombay Improvement Trust.	Public Gardens.	Stores, Plant and Live Stock.	Municipal Building Fund.	Road Improvement Fund.	Investments Fund.	Plague Expenses.	Miscellaneous.	Total.	Year.	Five years' average annual expenditure.
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.
....	....	5,10,250	....	....	....	....	1,17,345	49,59,333	1865	
....	....	82,059	....	....	....	....	1,25,240	36,01,922	1866	
....	....	2,70,545	....	....	....	....	1,49,622	42,16,346	1867	>38,77,302
....	....	3,52,722	....	....	....	....	37,775	34,77,058	1868	
....	....	....	....	....	....	....	42,365	31,31,358	1869	
....	....	....	....	....	....	....	23,416	33,92,185	1870	
....	....	....	....	....	....	....	53,213	38,04,661	1871	
....	27,273	....	....	....	....	....	(a) 1,57,333	31,15,888	1872	>32,89,595
....	11,857	....	....	....	....	....	22,334	30,44,577	1873	
....	14,473	....	....	....	....	....	46,845	29,90,663	1874	
....	13,282	....	....	....	....	....	(b) 1,19,851	32,65,027	1875	
....	21,638	....	....	....	....	....	47,696	31,60,428	1876	
....	20,221	....	....	....	....	....	55,559	30,36,635	1877	>31,68,869
....	21,190	....	....	....	....	....	71,103	32,70,224	1878	
....	17,709	....	....	....	....	....	51,791	31,11,122	1879	
....	20,756	....	....	....	....	....	44,321	30,57,992	1880	
....	19,463	....	2,50,000	....	....	....	(c) 3,52,635	37,98,872	1881	
year being changed to the financial year, the expenditure was :—										
....	28,969	....	50,000	19,000	....	....	38,740	47,53,632	1882-83	>38,41,465
....	20,263	....	20,000	....	....	....	33,934	37,15,812	1883-84	
....	22,738	....	801	....	....	....	(d) 2,11,180	38,81,020	1884-85	
....	23,864	....	99,199	....	....	....	98,226	40,66,940	1885-86	
....	38,326	....	49,772	....	....	....	57,562	41,76,362	1886-87	
....	42,123	....	50,221	....	....	....	32,436	58,12,690	1887-88	>48,59,951
....	48,939	....	55,577	....	....	....	(e) 1,12,356	52,01,256	1888-89	
....	65,153	....	24,459	....	3,000	....	58,553	50,42,405	1889-90	
....	37,805	....	28,907	....	3,113	....	(f) 1,25,307	56,34,361	1890-91	
....	77,225	....	27,905	....	3,274	....	2,07,780	57,82,073	1891-92	
....	96,964	....	....	....	3,386	....	52,566	65,45,512	1892-93	>62,60,972
....	(f)2,80,453	....	....	....	5,64,972	....	23,321	69,63,928	1893-94	
....	93,969	....	....	....	44,086	....	28,485	63,72,486	1894-95	
....	64,028	....	....	....	1,46,180	....	15,519	67,02,516	1895-96	
....	60,312	....	....	....	1,42,601	4,37,035	35,503	70,04,743	1896-97	
....	71,447	....	....	....	36,478	5,00,000	1,20,712	74,96,969	1897-98	>71,87,147
....	74,959	....	....	....	37,425	—5,00,000	(g) { 3,12,546 / 19,673 }	73,39,026	1898-99	
....	78,250	....	....	....	35,316	— 43,694	32,385	73,92,480	1899-1900	
4,74,605	69,870	....	....	....	58,400	— 922	1,86,444	85,84,058	1900-01	
4,81,000	57,685	....	....	....	59,259	....	38,695	82,26,458	1901-02	
5,00,000	58,874	....	....	....	58,136	....	75,124	84,53,398	1902-03	>84,57,384
3,50,000	67,422	....	....	....	33,265	....	34,006	84,31,390	1903-04	
2,50,000	66,022	....	....	....	35,399	1,81,920	57,512	85,91,618	1904-05	
2,50,000	64,751	....	....	....	39,377	2,25,538	(h) 3,62,359	93,74,242	1905-06	
3,00,000	64,735	....	....	....	39,628	2,43,044	18,945	95,20,790	1906-07	
3,56,081	76,158	....	....	....	44,445	1,95,517	1,80,939	1,01,89,201	1907-08	>1,02,22,281
4,50,000	92,305	....	....	....	47,843	2,23,328	37,952	1,06,30,126	1908-09	
7,80,000	93,964	....	....	....	1,21,917	2,00,915	(i) 3,65,178	1,13,97,050	1909-10	
8,35,000	91,210	....	....	....	49,473	1,87,234	1,31,899	1,12,81,872	1910-11	
8,65,000	76,091	....	....	....	57,633	1,55,903	1,25,274	(j) 1,14,84,462	1911-12	
9,23,000	83,982	....	....	....	10,000	1,47,752	2,25,882	(k) 1,16,81,827	1912-13	>1,17,90,028
9,22,093	91,688	....	....	....	10,000	1,24,662	2,16,193	(l) 1,20,45,926	1913-14	
9,76,938	92,265	....	....	....	10,000	1,27,633	1,59,869	(m)1,24,53,191	1914-15	
10,17,420	89,738	....	....	....	10,000	1,22,912	(n) 1,24,031	1,28,03,870	1915-16	1,26,09,870

(a) Includes write-off of loss in stores of Rs. 1,15,993.
(b) Includes Rs. 50,000 for visit of H. R. H. the Prince of Wales.
(c) Includes special adjustment of Rs. 3,24,827 for re-arranging the different loan funds.
(d) Includes loss of Rs. 1,64,774 on the sale of the Parwel Brick Factory.
(e) Includes Rs. 62,048 for loss on sale of investments.
(f) Includes Rs. 1,94,965 for land acquired.
(g) Write-off on account of frontage lands in Agripada.
(h) Includes contribution of Rs. 3,00,000 towards celebrating the visit of T. R. H. the Prince and Princess of Wales.
(i) Includes charges for Grain Compensation and Local Allowance and the loss sustained in the sale of unserviceable stores written-off.
(j) Excludes Rs. 5,00,000 transferred from revenue for writing off a portion of the Plague expenditure advanced from Loan Funds.
(k) Excludes Rs. 3,10,053 transferred from revenue for writing off a portion of the Plague expenditure advanced from Loan Funds as well as the amount of investments of interest realized on Sinking and Special Funds.
(l) Excludes Rs. 1,00,000 transferred from revenue for writing off the balance of the Plague expenditure advanced from Loan Funds as well as the amount of investment of interest realized on Sinking and Special Funds.
(m) Excludes Rs. 35,465 being the write-off of the proportionate cost (paid out of Loan Funds) of the Halaikhores' Chawl at Vincent Road sold to the City Improvement Trust as well as the amount of investments of interest realized on Sinking and Special Funds.
(n) Includes Rs. 25,000 being the contribution towards the cost of cadastral survey of the town and island of Bombay.

S. M. EDWARDES,
Municipal Commissioner.

Appendix No. 16.

CONTRASTED STATEMENT OF INCOME AND EXPENDITURE OF THE BOMBAY MUNICIPALITY FROM 1865 TO 1915-16.

YEAR.	Income.	Expenditure.	DIFFERENCE.	
			More.	Less.
	Rs.	Rs.	Rs.	Rs.
1865	23,63,787	49,59,333	.....	25,95,546
1866	29,14,672	36,01,922	.....	6,87,250
1867	30,40,524	42,16,346	.....	11,75,822
1868	38,52,674	34,77,058	3,75,616	.....
1869	33,93,226	31,31,358	2,61,868	.....
1870	33,07,749	33,92,185	.....	84,436
1871	28,71,160	38,04,661	.....	9,33,501
1872	30,48,331	31,15,888	.....	67,557
1873	33,24,108	30,44,577	2,79,531	.....
1874	29,81,322	29,90,663	.....	9,341
1875	31,43,526	32,65,027	.....	1,21,501
1876	31,77,723	31,60,438	17,285	.....
1877	32,41,452	30,36,535	2,04,917	.....
1878	31,45,153	32,70,224	.....	1,25,071
1879	33,41,174	31,11,122	2,30,052	.....
1880	32,51,870	30,57,992	1,93,878	.....
1881	38,73,694	37,98,872	74,822	.....
From 1st January 1882 to 31st March 1883 (15 months).	46,12,240	47,53,632	.....	1,41,392
1883-1884	37,37,272	37,15,812	21,460	.....
1884-1885	42,13,868	38,81,020	3,32,848	.....
1885-1886	44,73,973	40,66,940	4,07,033	.....
1886-1887	49,01,814	41,76,362	7,25,452	.....
1887-1888	51,66,530	58,12,690	.....	6,46,160
1888-1889	49,66,193	52,01,258	.....	2,35,065
1889-1890	53,42,169	50,42,405	2,99,764	.....
1890-1891	61,65,901	56,84,861	4,81,040	.....
1891-1892	62,33,183	57,82,073	4,51,110	.....
1892-1893	66,72,943	65,45,512	1,27,431	.....
1893-1894	67,62,695	69,63,928	.....	2,01,233
1894-1895	65,39,372	63,73,486	1,65,886	.....
1895-1896	67,61,710	67,02,516	59,194	.....
1896-1897	62,08,978	70,04,743	.....	7,95,765
1897-1898	71,45,560	74,96,969	.....	3,51,409
1898-1899	71,61,911	73,39,026	.....	1,77,115
1899-1900	88,29,817	73,92,480	14,37,337	.....
1900-1901	84,02,848	85,84,058	.....	1,81,210
1901-1902	77,66,729	82,26,458	.....	4,59,729
1902-1903	81,75,688	84,53,398	.....	2,77,710
1903-1904	84,82,625	84,31,390	51,235	.....
1904-1905	93,36,111	85,91,618	7,14,493	.....
1905-1906	90,92,539	93,74,242	.....	2,81,703
1906-1907	96,48,501	95,20,790	1,27,711	.....
1907-1908	98,89,324	1,01,89,201	.....	2,99,877
1908-1909	1,02,86,048	1,06,30,126	.....	3,44,078
1909-1910	1,12,13,864	1,13,97,050	.....	1,83,186
1910-1911	1,21,96,149	1,12,81,872	9,14,277	.....
1911-1912	1,26,55,789	* 1,14,84,562	11,71,227	.....
1912-1913	1,27,41,589	(a) 1,16,81,587	10,60,002	.....
1913-1914	1,28,76,501	(b) 1,20,48,926	8,27,575	.....
1914-1915	1,24,13,366	(c) 1,24,53,191	.....	39,825
1915-1916	1,38,31,070	1,28,03,870	10,27,200	.....

* This is exclusive of Rs. 5,00,000 utilized towards writing-off a portion of the Plague expenditure.
(a) Do. „ 3,10,052-7-4 do. do. do.
(b) Do. „ 1,00,000 do. the balance do.
(c) This is exclusive of Rs. 25,455 being the write-off of the proportionate cost (paid out of Loan Funds) of the Halalkhors' chawl at Vincent Road sold to the City Improvement Trust.

W. E. WAITE,
Chief Accountant.

S. M. EDWARDES,
Municipal Commissioner.

REVENUE.

Report on the working of the Assessment and Collection Department for the year 1915-16 by B. D. Banaji, Esq., Assessor and Collector, forwarded with his No. 9465, dated 31st May 1916.

1. The total amount collected under all heads, exclusive of tolls, miscellaneous receipts and fees was Rs. 94,63,610-8-3 against the estimate of Rs. 86,31,900, a difference of Rs. 8,31,710-8-3, detailed as under:—

Taxes.	Estimate.	Actual collections including adjustments.	Increase.
	Rs.	Rs. a. p.	Rs. a. p.
General Tax...	50,10,000	54,79,632 11 5	4,69,632 11 5
Water Tax*	19,78,000	22,51,099 5 10	2,73,099 5 10
Halalkhore Tax	14,00,000	14,86,398 5 6	86,398 5 6
Wheel Tax	2,43,900	2,46,480 1 6	2,580 1 6
Total ...	86,31,900	94,63,610 8 3	8,31,710 8 3

* Exclusive of meter hire and receipts by the Hydraulic Engineer.

2. As compared with the total collections for 1914-15, *viz.*, Rs. 88,97,617-7-1, the collections for 1915-16, *viz.*, Rs. 94,63,610-8-3 are more by Rs. 5,65,993-1-2.

3. On the 31st March 1916, the outstandings for property taxes, charges for water by meter and wheel tax (private) were Rs. 42,409-0-7 against Rs. 56,529-3-5 on 31st March 1915, of which Rs. 19,523-5-10 have been collected or adjusted up to 26th May 1916, leaving at that date Rs. 22,885-10-9 outstanding for all previous years. Out of this sum Rs. 36-3-11 are irrecoverable and Rs. 18,220-15-1 are disputed as under:—

Particulars.	Bills.	Amount.
		Rs. a. p.
Bungalows with gardens (water tax on value)	12	803 9 0
College hostels (The question of exemption from General Tax is pending reference to the High Court)	22	4,780 3 11
Claims presented to the Official Assignee and Receivers in cases of Insolvents, &c.	25	587 8 7
Small Causes Court decrees obtained	9	131 9 11
Disputes about valuations and water by meter, etc. ...	120	11,917 15 8
Total ...	188	18,220 15 1

4. Properties in the assessment book on 31st March 1916 were 62,356 as under against 61,990 on 31st March 1915:—

Buildings	40,475
Salt pans	109
Lands (including tanks, wells, &c.)	21,772
Total ...	62,356

Of this number 52,046 were assessed for the General Tax, 2,405 were exempted under Section 143 (1) (A) (B) of the Municipal Act, 6,206 were not charged the General Tax being small plots of waste lands, houses marked "Unfit for human habitation," the assessments of which were temporarily reduced to a nominal value of Rs. 6 for which no bills were issued. The number of Municipal properties which are not assessed under Section 143 (1) (*b*) of the Act is 1,699.

5. The number of buildings newly erected, demolished and enlarged in 1915-16 was 831,612 and 387 respectively.

6. The assessments of properties contrasted with those of 1914-15 were :—

Year.	Original Assessment (Gross).	Amount after disposal of complaints.		Amount of subsequent reduction during the year by demolition and on complaints.	Gross amount after deduction of subsequent reduction.	Subsequent enhancement (new buildings, enlargements and under assessments) (Gross).	Total Gross Assessment.	Increase—Final difference over preceding year's gross assessment.	Rateable Assessment.	Classification of Rateable Assessment.			
		No. of complaints against opening Assessment.	Gross Assessment.							Chargeable with General Tax.	Exempted from General Tax, Section 148 (1) (*a*) and (*b*).	For which no General Tax bills issued.	Total Rateable Assessment.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1914-15	5,89,15,560	4,430	5,89,24,184	8,73,370	5,80,50,814	17,90,576	5,98,41,390	18,93,927	5,38,67,232	5,14,64,858	23,88,083	14,291	5,38,67,232
1915-16	6,10,29,489	5,079	6,04,58,350	9,25,654	5,95,32,696	38,83,495	6,34,16,191	35,74,801	5,70,83,834	5,45,03,932	25,64,306	15,596	5,70,83,834

7. There were 4,657 complaints against assessments made from 1st April and 422 complaints against assessments made during the currency of the year, making a total of 5,079 complaints against 4,430 complaints in 1914-15.

8. The following tables give the increases and decreases in property taxes levied as compared with those of 1914-15 :—

General Tax.

1914-15.				1915-16.				Increase (Difference between columns 4 and 8.)
9¾ per cent.	Compounded sum payable by Government under Section 144 (3).	Compounded sum payable by Port Trustees, under Section 145 (3).	Total of columns 1, 2 and 3.	9¾ per cent.	Compounded sum payable by Government under Section 144 (3).	Compounded sum payable by Port Trustees under Section 145 (3).	Total of columns 5, 6 and 7.	
1	2	3	4	5	6	7	8	9
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
45,35,884 11 3	2,16,399 15 4	2,29,854 0 0	50,82,138 10 7	47,63,932 13 11	* 2,52,550 9 6	† 3,65,762 0 0	53,82,245 7 5	3,00,106 12 10

N. B.—* In addition to this sum the Government paid during the year Rs. 86,150-10-2 for 1914-15 being the difference between the Old and the New Awards.

† In addition to this sum the Port Trustees paid during the year Rs. 1,93,788 for 1914-15 being the difference between the Old and the New Awards, and Rs. 3,880 for anticipated increase in the value of vacant lands.

The amount of General Tax on properties exempted from its payment under Section 143 (1) (*a*) (*b*) is Rs. 2,53,225-2-11 against Rs. 2,35,823-4-1 in 1914-1915.

Water Tax.

1914-15.				1915-16.				Difference.			
On rateable value @ 8 per cent.	Compounded.	On meter measurement	Total of columns 1, 2 & 3.	On rateable value @ 8 per cent.	Compounded.	On meter measurement	Total of columns 5, 6 & 7.	On rateable value (increase).	Compounded (increase).	On meter measurement (increase).	Difference between columns 4 & 8 (increase).
1	2	3	4	5	6	7	8	9	10	11	12
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
10,14,816 9 11	11,601 8 6	11,14,600 1 0	21,41,018 3 5	10,81,872 11 10	13,117 7 4	11,50,718 9 5	23,45,408 12 7	66,756 1 11	1,515 14 10	36,118 8 5	1,04,390 9 2

Halalkhore Tax.

1914-15.			1915-16.			Difference between columns 3 and 6 (increase).
On rateable value at 3 per cent.	On special service.	Total of columns 1 & 2.	On rateable value at 3 per cent.	On special service.	Total of columns 4 & 5.	
1	2	3	4	5	6	7
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
13,42,151 10 7	93,257 8 4	14,35,409 2 11	13,77,209 13 11	1,06,027 5 2	14,83,237 3 1	47,828 0 2

9. The total demand on account of property taxes amounted to Rs. 91,10,891-7-1 (including Government and Port Trust) to which is to be added Rs. 4,397-1-10 on account of previous years Rs. 36,150-10-2 on account of the difference (for 1914-15) between the Old and the New Awards in respect of the Government properties and Rs. 1,43,668 on account of the difference (for 1914-15) between the Old and the New Awards in respect of the Port Trust properties including the anticipated increase in respect of their vacant lands making a total of Rs. 92,95,107-3-1, from which sum Rs. 87,602-2-3 were allowed as one-fifth drawback of the General Tax under Section 158 (2) of the Municipal Act. The total number of claims for one-fifth drawback was 9,517.

10. For these taxes 84 bills for Rs. 4,397-1-10 were issued for previous years and for 1915-16, 70,163 bills for Rs. 84,04,976-11-4 (excluding Government and Port Trust, for which no bills are issued, the amounts being paid direct into the Chief Accountant's Office), were issued making a total of 70,247 bills for Rs. 84,09,373-13-2.

11. The outstanding balance for property taxes for all years on 31st March 1915 was Rs. 54,597-3-5. During 1915-16 bills for these taxes, amounting to Rs. 84,09,373-13-2 were issued. Government and Port Trust contributions were Rs. 7,98,131-3-8, (*viz.*, Rs. 2,88,701-3-8 and Rs. 5,09,430 respectively). Thus the total demand amounted to Rs. 92,62,102-4-3.

12. Of this amount Rs. 92,17,130-6-9 were collected, *i.e.*, Rs. 48,726-10-10 for former years, Rs. 36,150-10-2 on account of the difference for 1914-15 between the Old and the New Awards in respect of Government properties, Rs. 1,43,668 on account of the difference for 1914-15, between the Old and the New Awards in respect of the Port Trust properties (including the anticipated increase of Rs. 3,880 in respect of their vacant lands) and Rs. 89,88,585-1-9 for 1915-16 leaving uncollected the sum of Rs. 44,971-13-6. Deducting from this amount Rs. 4,834-11-7 on account of bills recalled and cancelled, the balance outstanding on 31st March 1916 was Rs. 40,137-1-11.

13. The outstandings on 31st March 1916 were Rs. 5,432-14-10 on account of former years and Rs. 34,704-3-1 for 1915-16, making a total of Rs. 40,137-1-11.

14. *Tax on Vehicles and Animals.*—The demand on account of the tax on private vehicles and animals for the four quarters ended 31st December 1915 was Rs. 2,47,609-2-8 against Rs. 2,47,225-9-4 for 1914, to the first sum are to be added Rs. 1,932 outstanding on 31st March 1915 and amended demand aggregating Rs. 141-5-4 for former years, making a total of Rs. 2,49,682-8-0 for recovery. 17,206 bills were issued during 1915-16. The amount collected was Rs. 2,46,480-1-6, leaving Rs. 3,202-6-6 uncollected, of which Rs. 516-13-2 were written off under Standing Committee's Resolutions Nos. 1016, dated 12th May 1915, 3033, dated 11th August 1915, 4686, dated 27th October 1915 and 6923, dated 2nd February 1916, and Rs. 413-10-8 were on account of bills recalled, amended bills being issued, making a total of Rs. 930-7-10, which deducted from Rs. 3,202-6-6 leaves Rs. 2,271-14-8, outstanding at the end of the year.

15. During the year there were taxed 3,517 four-wheeled vehicles, 908 two-wheeled vehicles, 952 vehicles not drawn by horses, etc., 1,346 motor cars, 313 motor cycles, 5,338 horses (including those in commission stables), 113 ponies, 1,047 bullocks, 1 mule, 3 donkeys and 8 buffaloes.

16. The following table shows the total demands, collections and balances on account of property taxes and tax on private vehicles and animals:—

Year.	Opening Outstanding Balance.	Demand assessed for the Year and for former years, including the amounts paid by Government and Port Trustees for difference between the Old and the New Awards.	Total.	Bills written off under Standing Committee's Resolutions and Bills recalled for amendments.	Collections.	Outstanding Balance on 31st March 1916.
1	2	3	4	5	6	7
1915-16.	Rs. a. p. 86,529 3 5	Rs. a. p. 94,65,256 3 10	Rs. a. p. 95,11,784 12 3	Rs. a. p. 5,765 3 5	Rs. a. p. 94,69,810 3 8	Rs. a. p. 44,409 0 7

17. The miscellaneous receipts for Notices, Warrants, Battaki Fees and other small items amounted to Rs. 5,131-14-0 against Rs. 5,516-9-1 in 1914-15. The receipts for meter hire were Rs. 33,753-0-0 against Rs. 33,400 in 1914-15.

18. Certificates of refund of taxes for 1915-16, and for former years were issued as under :—

	Rs.	a.	p.
General Tax	42,928	14	8
Water Tax	11,228	0	11
Halalkhore Tax...	18,471	7	9
Wheel Tax	85	0	0
Meter Hire	253	5	4
Notice Fees	2	0	0
Total Rs. ...	72,968	12	8

19. The appeals filed against the valuations for 1915-1916 to the Chief Judge of the Small Causes Court were as under :—

20 against the valuations fixed on complaints in 1914-15 for 1915-16 and 1 against the amendment under Section 167 of the Municipal Act during the currency of the year against 14 and 4 respectively in 1914-15. Out of these 20 appeals, 19 were settled out of Court and withdrawn by the appellants and one was timebarred. One appeal is pending.

20. The right of collecting the Toll at the Mahim and Sion Causeways was sold in 1915-16 for Rs. 22,050 (from 1st August 1915 to 31st July 1916) against Rs. 23,200 in 1914-15. The total income in 1915-16 under this head was Rs. 22,433-5-4 against Rs. 22,966-10-8 in 1914-15.

21. I was on privilege leave on account of illness from 21st August 1915 to 30th September 1915, during which period my First Assistant Assessor Mr. R. G. Robottom acted as Assessor and Collector.

B. D. BANAJI.

Assessor & Collector

No. 2643 of 1916-17.

Bombay Municipality, 15*th July* 1916.

From

R. N. COYAJEE, Esq.,
Revenue and Refund Audit Officer,

To

S. M. EDWARDES, Esq., c.s.i., c.v.o., i.c.s.,
Municipal Commissioner for the City of Bombay.

Sir,

I have the honour to submit the Annual Administration Report of the Revenue and Refund Audit Department for the official year 1915-16.

I.—REVENUE AUDIT.

1.—Assessor and Collector's Department.

(a) Ward Offices.

2. The balances and books of 81 Ward Clerks in the seven Wards of the City were duly examined at the end of each quarter. The amount of audit work done on each of these occasions is shown in detail in Appendix **A**.

3. 20,756 outstanding bills for Rs. 22,39,528-5-7 were duly checked in detail with the Ward Office Bill Books, Form 16 (every entry in which was subjected to scrutiny), and in totals, which last were tested with the book kept under para. 9 at page 155 of the Manual, which book is practically the Ward Clerk's ledger. They were also checked with the Head Office Accounts (Forms 8 and 9), both in details and in totals.

(b) Head Office.

4. The Assessment Book in both its parts, one for the General tax and the other for the Water and Halalkhore taxes, was duly examined, and the exemptions from the payment of the General tax, the Water tax and the Halalkhore tax were duly checked with a view to ascertain that no property liable to pay any or all of these taxes had escaped assessment.

5. The Vehicle and Animal Tax Book, kept under Section 186 of the Act, was also examined and all the entries therein checked with the quarterly returns of the Ward Superintendents and, where necessary, also with the owner's returns under Section 187, and with the charges made for the preceding quarters. Appendix **B** gives the details for each Ward.

6. As the year recognized by Bombay Act VI of 1863 is the calendar year, the revenue from the tax on public land conveyances licensed by the Commissioner of Police under that Act was audited for the twelve months from 1st January to 31st December 1915, except that the revenue from the tax on motor-cars (taxi-cabs) plying for hire was audited for the twelve months from 1st April 1915 to 31st March 1916, as the permits in respect of them were issued by the Commissioner of Police for the official year under the Motor Vehicles rules. The certificates of issue of licenses supplied by the Commissioner of Police have been duly checked with the register kept by the Chief Accountant. The following table shows the work done :—

Description of public land conveyances.	Number of certificates or vouchers.	Amount of revenue, including fees for licenses, badges, &c.
		Rs. a. p.
Victorias	3,586	1,23,725 12 0
Riding Hackeries	68	947 3 4
Labour Carts	6,564	1,45,564 6 0
Single Bullock Carts	2	14 0 0
Hand Carts	11	63 10 8
Motor-cars (taxi-cabs)	160	9,090 0 0
Total ...	10,391	2,79,405 0 0

7. Appendix **C** shows the number of claims to one-fifth drawback under Section 158 (2) of the Act, which were scrutinized by this office during 1915-1916.

8. All the alterations in the rateable values and in demands made through the increase and decrease forms were duly checked with the Tabulated Ward Reports (Form 13), which contained your orders as to such alterations, and with your separate sanctions recorded in the Audit Note Book kept in this office.

9. The number of complaints against valuations under Section 163 of the Act that were heard by me were 198, B Ward, Mandvi; 266, E Ward, Byculla; 105, F Ward Parel; and 161, G Ward, Mahim; total 730. The total number of decisions on complaints against amendments under Section 167 of the Act, which were scrutinized by this office, amounted to 288 from all the seven Wards of the City.

10. Sixty-eight irrecoverable bills for Rs. 808-11-10, as per details given in the sub-joined table, were scrutinized and submitted to you in the prescribed form for action under Section 216 of the Act.

Ward.	Number of Bills.	Amount.		
		Wheel tax.	Process fees	Total.
		Rs. a. p.	Rs. a. p.	Rs. a. p.
A	41	428 0 8	0 4 0	428 4 8
B	2	14 10 8	.....	14 10 8
C	4	52 0 0	.....	52 0 0
D	11	110 12 6	.....	110 12 6
E	6	169 0 0	.....	169 0 0
F	1	4 0 0	.....	4 0 0
G	3	30 0 0	.....	30 0 0
Total ...	68	808 7 10	0 4 0	808 11 10

The Standing Committee sanctioned these being written off in their Resolutions Nos. 1016, 3033, 4686 and 6923, dated 12th May 1915, 11th August 1915, 27th October 1915 and 2nd February 1916, respectively. Of the 68 bills referred to above three bills, Nos. A 580/7520, E 685/5968, and E 685/6600, amounting to Rs. 28, have not been actually recalled in the Assessor's books, because the amounts of the bills were remitted by the parties concerned after the Standing Committee had accorded their sanction to the write-off. The amount actually written-off in the year under report would therefore come to Rs. 780-7-10 excluding process fees.

11. The demands, collections and balances at the close of the year, as duly audited in the manner contemplated by the Manual, are summarized below:—

———	General tax.	Water tax.	Halalkhore tax.	Vehicle and Animal tax.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
I.—Total demands (including previous year's outstandings) ...	56,40,950 12 2	23,41,114 4 7	15,88,654 9 9	2,53,452 13 4	98,24,172 7 10
Contribution paid by Government and Port Trust for previous years ...	1,79,818 10 2	.....	.....	.....	1,79,818 10 2
II.—Deduct bills recalled which were either cancelled or in lieu of which amended bills were issued.	3,17,724 2 1	79,878 2 0	95,668 7 11	3,920 5 4	4,97,191 1 4
III.—Net demand for collection ...	55,03,045 4 3	22,61,236 2 7	14,92,986 1 10	2,49,532 8 0	95,06,800 0 8
IV.—(a) Collection paid into the Treasury, including departmental adjustments ...	54,79,632 11 5	22,51,099 5 10	14,86,398 5 6	2,46,480 1 6	94,63,610 8 3
(b) Irrecoverable bills written off	.....	.....	.....	780 7 10	780 7 10
(c) Balance at the close of the year ...	23,412 8 10	10,136 13 9	6,587 12 4	2,271 14 8	42,409 0 7
Total of IV ...	55,03,045 4 3	22,61,236 2 7	14,92,986 1 10	2,49,532 8 0	95,06,800 0 8

12. The collections were checked with the totals in the Chief Accountant's books under each head and the balance by an examination of the bills actually on hand in the seven Ward offices on 1st April 1916. They were found to be correct. The excess of Rs. 22-2-8 in General tax and Rs. 10-1-8 in Halalkhore tax shown in the Chief Accountant's collection account is due to an amount of refund origiaally allowed in excess having subsequently been recovered (*vide* Commissioner's No. 34212 of 17th January 1916). As this amount does not form part of the demand no bill was issued for that amount and consequently is not accounted for in the Assessor and Collector's Bill Book and does not appear in the above account of collections.

Executive Engineer's Department.

13. The revenue books kept in the General, Streets and Buildings, and Drainage Branches of the Executive Engineer's office were duly checked each month with the permits, receipts, vouchers and other papers supporting the several entries therein, the object of audit being to see that the charges were correctly calculated at rates duly sanctioned and that the collections as shown by the various books were all paid into the Municipal Treasury. The number of vouchers examined was 6,066 representing Rs. 4,27,291-5-6.

Hydraulic Engineer's Department.

14. The revenue books kept by the Hydraulic Engineer's Department were duly checked each month with the vouchers and other papers supporting the several entries therein, the object of audit being to see that the charges were correctly calculated at the rates duly sanctioned and that the collections as shown by the various books were all paid into the Municipal Treasury. The number of vouchers examined was 2,406, representing Rs. 82,354-2-0.

Rent bills against the Telephone and Tramway Companies.

15. The bill against the Bombay Telephone Company that was checked by this office in the year under report was for the calendar year 1914 and the two half-yearly bills against the Tramway Company that were checked were for the periods from 2nd of February 1915 to 1st of August 1915 and from the 2nd of August 1915 to 1st of February 1916, such being the periods for which these bills are issued every year.

Health Department.

16. The revenue books kept in the office of the Executive Health Officer, as well as those kept in the seven Deputy Health Officers' offices for the Wards A to G, were duly checked each month with the receipts, vouchers and other papers supporting the entries therein, the object of audit being to ascertain that the amounts collected as shown by the various books were at the rates fixed under proper authority, and that they were all duly paid into the Municipal Treasury. The number of vouchers examined was 22,406, representing Rs. 1,42,284-4-0.

Vaccination Department.

17. The revenue books kept in the office of the Superintendent of Vaccination were duly checked each month in accordance with the instructions conveyed in your No. 15378 of 26th August 1910, with the receipts and vouchers and other available papers supporting the several entries therein, the object of audit being to see that the charges were correctly calculated at rates duly sanctioned, and that the collections as shown by the various books were all paid into the Municipal Treasury. The number of vouchers examined was 1,636, representing Rs. 14,682-9-10.

Markets and Slaughter Houses.

18. The register and account books kept for the different Markets and Bandra Slaughter Houses were duly checked with the counterfoils of receipts issued to stall-holders, &c., and with the other vouchers available. The total number of vouchers examined was 8,312, representing Rs. 5,88,813-8-6, which amount appeared duly paid into the Municipal Treasury.

Licensing Department.

19. The number of Licenses for 1915-16, the issue of which was sanctioned by the Commissioner under Section 394 of the Act, for the several purposes mentioned in Schedule M, together with those sanctioned under Section 393, aggregated 12,658 and brought in a revenue of Rs. 1,10,608-12-0. Each of these cases passed through this office and was duly scrutinized. The Register of the Superintendent of Licenses and the counterfoils of the

License Books were also checked with the Audit Note Books kept in this office in accordance with the Commissioner's No. 3176 of 20th May 1890, and with the counterfoils of the receipts signed by the Chief Accountant's Cashier for the purpose of seeing that the full amount of fee leviable in each case was collected and duly paid into the Municipal Treasury.

20. The number of permits issued under Section 390 of the Act in respect of newly established factories was 108 and brought in a revenue of Rs. 2,700. Each of these permits passed through this office and was duly checked with the Register kept by the Superintendent of Licenses, with the Audit Note Book kept in this office, and with the counterfoils of receipts signed by the Chief Accountant's Cashier.

Victoria Gardens.

21. The revenue books kept in the office of the Superintendent of Gardens were duly checked with the counterfoils of receipts issued for the sale of garden produce and with the counterfoils of tickets issued for the Elephant and Camel rides in the Victoria Gardens and for admission to the Gardens on Band days. The number of vouchers examined was 20,555, representing Rs. 8,155-7-0, which amount appeared duly paid into the Municipal Treasury.

Fines levied by the Presidency Magistrates.

22. The total amount of fines recovered for the year under report in respect of offences committed against the several provisions of the Municipal Act, as per statements sent every month by the Chief Presidency Magistrate, was Rs. 30,280-9-0, which appears to have been duly paid into the Municipal Treasury. There were some few cases of outstandings of recoveries and these were from time to time brought to the notice of the Heads of Departments concerned through the Commissioner.

Rents recovered from Municipal Servants for Municipal properties occupied by them.

23. A new item of revenue audit, *viz.*, the checking of the statements of rents recovered from Municipal servants for Municipal properties occupied by them, has devolved on this office since the commencement of the year under report, under the orders conveyed in the Commissioner's No. 48 of 1st April 1915. As, however, these statements have not yet been sent by some of the Departments of the Municipality, as has already been brought to the notice of the Commissioner from time to time, and as rents have not, in some cases, yet been sanctioned, the regular audit of this particular head of revenue has not yet been definitely entered on beyond merely going through the preliminaries.

General.

24. As the monthly and quarterly audit of the several Departments proceeded, the errors, irregularities or omissions, which were discovered in the course of it, were brought to the notice of the Heads of the Departments concerned by means of official communications addressed to them through the Commissioner.

II.—REFUND AUDIT.

1.—Assessment Department.

25. The subjoined table shows the number and amount of claims to refund on account of vacancies under Sections 174 to 179 of the Act, and on account of over-collections, which were scrutinized by this office in the year under report :—

Ward.	No. of Claims.	Amount of Refund sanctioned.		
		Rs.	a.	p.
A—Fort and Colaba	385	16,795	0	10
B—Mandvi	303	7,756	1	11
C—Bhuleshwar	550	12,070	8	4
D—Girgaum	355	8,886	6	1
E—Byculla	232	4,209	4	3
F—Parel	106	7,496	3	4
G—Mahim	145	6,135	1	1
Properties owned by the City Improvement Trust	292	9,620	2	10
Total ...	2,368	72,968	12	8

26. The sum of Rs. 72,968-12-8 shown in the above table was sanctioned under the following heads of revenue :—

Heads of Revenue.	Amount.
	Rs. a. p.
General Tax	42,928 14 8
Water Tax	11,228 0 11
Halalkhore Tax	18,471 7 9
Vehicle and Animal Tax	85 0 0
Meter Hire	253 5 4
Process Fees	2 0 0
Total ...	72,968 12 8

Town Duty Refunds.

27. As the Port Trustees and the two Railway Companies send in no Administration Reports of the Town Dues collected by them on behalf of the Municipality, it is usual for this office to submit the two statements, D and E, compiled, in so far as the gross collections are concerned, from figures supplied by the Chief Accountant. The following table compares the total results for the year under report with those for the previous year :—

Year.	Gross Revenue.	Total Refunds.	Net Revenue.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
1914-15	26,27,757 0 11	15,82,067 12 0	10,45,689 4 11
1915-16	36,60,101 2 10	16,93,443 3 0	19,66,657 15 10

28. The rates of duty were the same as in the previous year.

29. The net revenue of Rs. 19,66,657 is the largest ever realized and shows the heavy increase of Rs. 9,20,968 over the previous year. This is made up of increases under the head of every article except beer which exhibits an insignificant falling off. This unprecedented increase of over 88 per cent. in the net revenue, when considered in conjunction with the equally unprecedently heavy deficit of Rs. 6,71,204 in the year previous, indicates a restoration of trade to normal conditions which in the preceding year had been seriously disturbed by various factors, such as, the initial, though unfounded, scare caused by the outbreak of the war, the fright caused by the Enemy ship "Emden", the partial exodus of the population, &c. The removal of these smothering influences has found its response in the speedy rebound of the net revenue, to which another factor may also be reckoned as having contributed in a partial degree, *viz.*, the enforcement of the system of departmental marking of packages of sugar on their import as a compulsory measure from 1st October 1915. The advantages of this scheme could not be fully reaped during the year of report, because the sugar exported from 1st October 1915, till the end of the year consisted partly of that imported prior to that date and hence not departmentally stamped and partly of that imported since that date and stamped with Municipal stamps. When the scheme has been in operation throughout the whole of an official year, its impress upon the revenue would be more appreciable.

30. The number of claims dealt with in the year was 59,941 against 53,594 in the year previous.

Conclusion.

31. In addition to the above, the office had to deal with correspondence of all departments affecting revenue, which passed through this office, and with questions of principle relating to revenue, the importance of which can scarcely be judged by the number of inward and outward references, which were respectively 15,064 and 9,301 in the year under report.

I have the honour to be,

Sir,

Your most obedient servant,

R. N. COYAJEE,

Revenue and Refund Audit Officer.

Appendix A.

STATEMENT of Balances examined quarterly during 1915-1916.

Number of Ward Clerks.	WARD.	Balances examined on 1st April 1915.		Balances examined on 1st July 1915.		Balances examined on 1st October 1915.		Balances examined on 3rd January 1916.		Total balances examined during the year.	
		Number of Bills.	Amount.	Number of Bills.	Amount.	Number of Bills.	Amount.	Number of Bills.	Amount.	Number of Bills.	Amount.
			Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.		Rs. a. p.
16	A—Fort and Colaba	264	40,340 5 5	2,565	4,20,300 9 6	272	23,670 13 0	2,922	4,65,089 8 6	6,024	9,49,401 4 5
11	B—Mandvi	33	3,067 4 1	1,925	2,75,700 14 9	47	4,597 5	2,114	2,94,927 2 6	4,119	5,78,292 11 9
14	C—Bhuleshwar	43	3,068 7 9	1,298	1,23,195 11 1	37	3,294 3 3	1,371	1,28,009 7 4	2,749	2,57,567 13 5
11	D—Girgaum	59	4,543 2 7	1,019	91,495 9 2	89	8,720 0 3	1,034	97,755 6 9	2,191	2,02,514 2 9
14	E—Byculla	55	2,778 3 4	886	65,406 7 1	83	7,705 1 2	1,127	81,411 10 7	2,151	1,57,301 6 2
7	F—Parel	28	984 5 4	329	18,173 12 0	26	864 9 2	399	19,062 13 5	782	39,085 6 11
8	G—Mahim	35	1,747 6 11	1,242	20,077 11 9	56	1,225 12 7	1,407	33,314 8 11	2,740	55,365 8 2
81	Total ...	517	56,529 3 5	9,265	10,14,350 11 4	610	50,077 13 10	10,364	11,18,570 9 0	20,756	22,39,528 5 7

R. N. COYAJEE,
Revenue and Refund Audit Officer.

Appendix B.

STATEMENT of entries in the Vehicle and Animal Tax Book checked during 1915-16.

Ward.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total.
A	1,129	1,282	1,411	1,576	5,398
B	565	623	655	688	2,531
C	825	889	927	973	3,614
D	1,432	1,629	1,757	1,899	6,717
E	732	811	864	948	3,355
F	267	281	296	314	1,158
G	239	256	269	293	1,057
Total ...	5,189	5,771	6,179	6,691	23,830

R. N. COYAJEE,
Revenue and Refund Audit Officer.

Appendix C.

STATEMENT of claims for one-fifth Drawback scrutinized during 1915-16.

Ward.	1st Half of 1915-16.		2nd Half of 1915-16.		Total.	
	No. of claims received.	No. of claims admitted.	No. of claims received.	No. of claims admitted.	No. of claims received.	No. of claims admitted.
A	260	157	294	146	554	303
B	673	393	557	322	1,230	715
C	1,246	677	952	553	2,198	1,230
D	521	261	465	239	986	500
E	1,189	698	1,044	678	2,233	1,376
F	346	211	292	201	638	412
G	574	351	458	283	1,032	634
Properties owned by the City Improvement Trust.	333	267	313	259	646	526
Total ...	5,142	3,015	4,375	2,681	9,517	5,696

R. N. COYAJEE,
Revenue and Refund Audit Officer

Appendix D.

STATEMENT contrasting the Collections, Refunds and Net Revenue from Town Duties for the years 1914-15 and 1915-16.

NAME OF ARTICLE.	COLLECTIONS.				REFUNDS.								NET REVENUE.			
	1914-15.	1915-16.	Increase in 1915-16.	Decrease in 1915-16.	1914-15.			1915-16.			Increase in 1915-16.	Decrease in 1915-16.	1914-15.	1915-16.	Increase in 1915-16.	Decrease in 1915-16.
					On account of Exports.	On account of articles supplied to Government.	Total.	On account of Exports.	On account of articles supplied to Government.	Total.						
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Grain, at annas 6 per Candy	7,76,784 9 9	11,08,543 15 0	3,31,759 5 3	....	3,40,910 3 0	....	3,40,910 3 0	4,71,439 11 0	....	4,71,439 11 0	1,30,529 8 0	....	3,97,389 5 9	5,95,359 13 9	1,97,470 7 3	....
Flour, at annas 4½ per Candy	1,509 12 0	1,266 8 0	....	243 4 0	39,494 13 0	....	39,494 13 0	43,010 15 0	....	43,010 15 0	3,516 2 0	....				
Sugar at annas 8 per Cwt.	9,04,901 15 9	15,48,831 12 7	6,44,229 12 10	....	10,23,980 6 0	3,711 4 0	10,27,691 10 0	9,75,115 1 0	14,433 3 0	9,89,548 4 0	....	38,143 6 0	—1,23,089 10 8	5,59,283 8 7	6,82,373 2 10	....
Wines and Spirits, at annas 4 per Imperial Gallon	2,68,328 5 9	2,76,014 10 6	7,686 4 9	....	33,926 2 0	....	33,926 2 0	29,993 5 0	....	29,993 5 0	....	3,932 13 0	2,34,402 3 9	2,46,021 5 6	11,619 1 9	....
Beer, at pice 6 per Imperial Gallon ..	38,223 1 5	29,793 1 8	....	8,429 15 9	23,863 9 0	....	23,863 9 0	16,603 10 0	....	16,603 10 0	....	7,259 15 0	14,359 8 5	13,189 7 8	....	1,170 0 9
Ghee, at annas 10 per Bombay Maund ..	3,38,109 11 9	3,92,462 6 3	54,352 10 6	....	75,596 8 0	....	75,596 8 0	1,13,409 6 0	....	1,13,409 6 0	37,812 14 0	....	2,62,513 3 9	2,79,053 0 3	16,539 12 6	....
Timber, at 2½ per cent. on Market Value.	2,39,354 15 0	2,35,009 2 4	....	4,345 12 8	40,584 15 0	....	40,584 15 0	29,438 0 0	....	29,438 0 0	....	11,146 15 0	1,98,770 0 0	2,05,571 2 4	6,801 2 4	....
Firewood, at annas 2 per Candy	60,844 9 6	68,179 10 6	7,335 1 0	....	...	....	....	....	....	....	....	....	60,844 9 6	68,179 10 6	7,335 1 0	....
			10,45,363 2 4	13,019 0 5							1,71,858 8 0	60,488 1 0			9,22,138 11 8	1,170 0 9
			13,019 0 5								60,488 1 0				3,170 0 9	
Total Rs. ..	26,27,757 0 11	36,60,101 2 10	10,32,344 1 11		15,78,356 8 0	3,711 4 0	15,82,067 12 0	16,79,010 0 0	14,433 3 0	16,93,443 3 0	1,11,375 7 0		10,45,689 4 11	19,66,657 15 10	9,20,968 10 11	

R. N. COYAJEE,

Revenue and Refund Audit Officer.

Appendix E.

STATEMENT contrasting the Imports, Exports and Balance of the several articles subject to Town Duty during the year 1915-16 with those for 1914-15.

NAME OF ARTICLE.	IMPORTS.				EXPORTS AND SUPPLY TO GOVERNMENT BY CONTRACTORS.								BALANCE (LOCAL CONSUMPTION AND STOCK).			
					1914-15.			1915-16.								
	1914-15.	1915-16.	Increase in 1915-16.	Decrease in 1915-16.	Exports.	Supply to Government.	Total.	Exports.	Supply to Government.	Total.	Increase in 1915-16.	Decrease in 1915-16.	1914-15.	1915-16.	Increase in 1915-16.	Decrease in 1915-16.
Grain at annas 6 per Candy .. Candies	20,71,425	29,56,117	8,84,692	.....	9,09,094	.....	9,09,094	12,57,172	.....	12,57,172	3,48,078	.....	9,62,254	15,01,945	5,18,791	.....
Flour at annas 4½ per Candy .. Candies	5,368	4,503	.....	865	1,40,426	.....	1,40,426	1,52,928	.....	1,52,928	12,502	.....				
Sugar at annas 8 per Cwt... .. Cwts.	18,09,204	30,97,663	12,88,459	.....	20,47,061	7,422	20,55,383	19,50,230	28,866	19,79,096	.....	76,287	−2,46,179	11,18,567	13,64,746	.....
Wines and Spirits at annas 4 per Imperial Gallon.. .. ..Gallons.	10,73,313	11,04,058	30,745	.....	1,35,704	.....	1,35,704	1,19,973	.....	1,19,973	.....	15,731	9,37,609	9,84,085	46,476	.....
Beer at pies 6 per Imperial Gallon. Gallons.	12,23,139	9,53,379	.....	2,69,760	7,63,634	.....	7,63,634	5,31,316	.....	5,31,316	.....	2,32,318	4,59,505	4,22,063	... .	37,442
Ghee at annas 10 per Bombay Maund. Maunds.	5,40,975	6,27,940	86,965	.....	1,20,954	.....	1,20,954	1,81,455	.....	1,81,455	60,501	.. ....	4,20,021	4,46,485	26,464	.....
Timber at 2½ per cent. on Market Value. Value Rupees.	95,74,197	94,00,366	.....	1,73,831	16,23,397	.....	16,23,397	11,77,520	.....	11,77 ,520	.....	4,45,877	79,50,800	82,22,846	2,72,046	.....
Firewood at annas 2 per Candy.. Candies.	4,86,757	5,45,437	58,680	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,86,757	5,45,437	58,680	.....

R. N. COYAJEE,

Revenue and Refund Audit Officer.

PUBLIC WORKS.

No. G-3571 of 1916-17.

EXECUTIVE ENGINEER'S OFFICE,
BOMBAY, *12th June* 1916.

To

THE MUNICIPAL COMMISSIONER
FOR THE CITY OF BOMBAY.

SIR,

I have the honour to forward the Administration Report of the Department under my control for the year 1915-16.

2. The report is divided under the following heads :—

	Paragraph Nos.
Municipal Building Construction	3–34
Roads	35—73
Footpaths	74—76
Drainage	77—124
Mechanical Branch	125—194
Overbridges	195—203
Open Spaces	204—206
Tramways	207—208
Public Lighting	209—213
Private Building Construction	214—225
Disposal of Town Sweepings	226—232
Plague Measures	233—237
Miscellaneous Works	238—257
Schemes	258—260
General	261-265

MUNICIPAL BUILDING CONSTRUCTION.

1. Bathing Places.

3. No funds were provided for bathing places during the year.

2. Markets.

4. The scheme for extending the southern and western frontages of the Arthur Crawford Markets could not be carried out in the absence of funds.

5. A sum of Rs. 4,116 was sanctioned from the surplus cash balance under Corporation Resolution No. 3197 of 19th August 1915, for providing a temporary railing and a scale shed on the south of the Crawford Markets. The work was entrusted to the Annual Repairs and Petty Works Contractors instead of inviting tenders, to prevent delay. The work was in progress at the close of the year.

6. The question of a site for the proposed market at Chowpatty was still under consideration at the close of the year.

3. Cemeteries.

7. The work of constructing a compound wall at the Worli Cemetery was completed at a cost of Rs. 5,116-7-0.

8. The question of protecting the foreshore at Mahim was under consideration at the close of the year, and the Port Trust have been approached in the matter.

4. Stables

9. Revised plans and estimates for stables and chawls for D Ward bullocks and bigaries at Annesley Road were under preparation at the close of the year.

10. The land on which the stables for bullocks at Mahim are to be erected has not yet been placed at the disposal of the Municipality by Government.

5. Chawls.

11. The construction of chawls for bigaries of the Health Department at Cochin Street has been deferred pending the settlement of the question of erecting buildings on Paltan Road.

6. Offices.

12. The land on which the Ward Offices at Babula Tank for the Assessment and Health Departments were to have been erected having been set aside as a recreation ground, the work has been kept in abeyance.

13. The construction of offices and quarters for the Water Works Department and the staff of the Road Department in A Ward was kept in abeyance owing to the rise in the price of building materials.

14. The construction of an office for the Building Inspector, G Ward, was kept in abeyance pending a suitable site becoming available.

15. The work of pulling down and re-constructing a portion of the building occupied by the Superintendent, Maintenance Branch, Water Works, at Chinchpookli was kept in abeyance pending settlement of a new site for the Central Stores.

7. Staff Quarters.

16. The land required for the erection of quarters for engine drivers, firemen, oilmen, etc., at the Love Grove Pumping Station is being acquired under the Land Acquisition Act.

17. Semi-permanent quarters for the accommodation of the staff employed at Love Grove Pumping Station were completed at a cost of Rs. 8,769-12-11.

18. A sum of Rs. 40,000 was provided in the Budget for the construction of semi-permanent quarters for halalcores on the Foras Tank Site. The tender of Messrs. Ramji Keshowji and Company amounting to Rs. 38,991-1-3 was accepted under the Standing Committee's Resolution No. 6382 of 12th January 1916. The work was in progress at the close of the year.

8. Slaughter Houses, &c.

19. The proposed Slaughter House at DeLisle Road has been kept in abeyance pending road widening.

20. A Lethal Chamber at Tardeo Flats was constructed at a cost of Rs. 16,662-14-0. The accounts for constructing carts and cages and for making arrangements for gasing purposes were not received at the close of the year.

21. A sum of Rs. 8,793 was sanctioned in the budget for constructing sheep pens at the Bandra Slaughter Houses.

22. The lowest tender of Messrs. Ramji Keshowji and Company, amounting to Rs. 9,377-15-6, was accepted. The work was in progress at the close of the year. The grant had to be supplemented to the extent of Rs. 1,384 which was sanctioned from surplus cash balance under Corporation Resolution No. 6306 of 10th January 1916.

9. Hospitals.

23. The second block of the hospital at Tardeo Flats for cattle suffering from infectious diseases was completed. The two blocks together cost Rs. 8,147-7-3.

24. A grant of Rs. 4,793 was made by the Corporation for carrying out certain additions and alterations in the existing permanent small-pox wards at the Arthur Road Hospital and the lowest tender of Mr. L. S. Mehta amounting to Rs. 4,273-1-5 was accepted, but the work could not be undertaken on account of the wards being fully occupied owing to a small-pox epidemic.

10. Primary Schools.

25. The construction of the Primary School at Ardeshir Dadi Street was completed during the year.

26. The construction of schools at Babula Tank, Dongri Street, Mustan Tank and DeLisle Road was kept in abeyance for financial reasons.

11. Garden Structures.

27. An available balance of Rs. 4,120 from the budget grant for 1914-15 was utilized in renovating ferneries and conservatories in the Victoria Gardens. The actual cost was Rs. 4,522-3-10 against an estimate of Rs. 4,817.

12. Zoological Garden Structures.

28. A compartment in the Lion House in the Victoria Gardens was provided at a cost of Rs. 3,807-4-6 against an estimate of Rs. 4,700. The tendered amount was Rs. 4,699-11-8.

29. An enclosure for wild ass was constructed at a cost of Rs. 2,150-15-1, the tendered amount being Rs. 2,970-5-5. The cost was met from a balance (Rs. 3,258) of budget provision for renovating cages.

13. Miscellaneous.

30. The pavement of the Health Department bigaries chawl at Arthur Road was completed at a cost of Rs. 10,403-3-7.

31. On the recommendation of the Executive Health Officer, the windows of the halalcores' huts at Tardeo Flats were provided with expanded metal as a protection against theft at a cost of Rs. 3,275-2-11 which was met from savings in the grant for the huts. The sanctioned amount was Rs. 4,308 and the tendered amount Rs. 3,924-7-6.

32. As the D Ward Health Department stables were required in connection with the New Municipal Workshops at Foras Road, a sum of Rs. 3,772 was sanctioned under Corporation Resolution No. 166 of 8th April 1915 for the erection of a temporary shed for accommodating 40 pair of bullocks in the compound of the Municipal stable at Suklaji Street. The work was entrusted to the Annual Repair Contractors and was completed at a cost of Rs 2,905-13-6.

33. It was proposed to carry out the painting of markets and stables from the accumulated grants for 1914-15 and 1915-16 amounting to Rs. 28,997, but as the tender of Messrs. Ramji Keshowji and Company which was recommended for acceptance, exceeded the available funds, the matter was under consideration at the close of the year.

34. The Corporation sanctioned a grant of Rs. 7,327 for the work of providing a shed for the stone-crushing machinery at Sewree from surplus cash balance under its Resolution No. 3180 of 19th August 1915. The work was entrusted partly to the Annual Repairs Contractors and partly to the Municipal Workshops without inviting tenders to save delay. The work was in progress at the close of the year.

ROADS.

1. Construction of New Roads.

35. It was decided to extend Lady Hardinge Road eastwards up to the G. I. P. Railway level crossing at Matunga and a provision of Rs. 88,250 was made in the Loan Works Budget. The work was commenced in November 1915 by Contractors Messrs. Godbole Brothers and was in progress at the close of the year.

2. Roads taken over and declared public.

36. The portion of Reay Road between Victoria Road and Harbour Defence Yard admeasuring 4,666 square feet was taken over from the Bombay Port Trust.

3. Widening of important Roads.

37. The following roads or portions thereof were specially taken up for widening:—

	Area in sq. ft.
Rampart Road (Junction with Apollo Street)	6,600
1st Marine Street (between Wellington Street and Queen's Road)	9,280
Girgaum Road (near Framji Cawasji Tank)	1,015
Abdul Rehman Street (between Carnac Road and Janjiker Street)	9,540
Musjid Bunder Road	5,880
Forjett Street (North side)	12,500
Cumballa Hotel Lane (from Gowalia Tank Road to Parsi Hospital) (now called Bomanji Petit Road)	18,000
Dockyard Road (near St. Peter's School)	21,600
Mount Road (middle portion)	15,000
Lamington Road (between Club Road and Bellasis Road) ...	72,000
Bhoiwada Cross Road	1,251
Curry Road (from Elphinstone Road to Curry Road Bridge).	3,108
Parel Village (from Parel Tank Road to Village)	7,500
Mahim Bazar Road (from Sassoon Mill northwards)	1,20,000

38. The vacant land lying within the 60 feet set-back lines at Nesbit Road has been acquired. The widening of part of the road will soon be undertaken.

39. Proceedings are pending before the Collector in connection with the acquisition of land required for the extension of Nesbit Road through Mingalwadi and for the primary school at Mazagaon.

40. The vacant land lying within the 60 feet set-back lines at Mahim Bazar Road having been acquired, the work of widening the road is in progress.

4. Widening of Streets.

41 The expenditure on general street improvements was as follows:—

	Rs.	a.	p.
Grant made from *Capital*	7,65,081	5	7
Expenditure, including a sum of Rs. 3,57,682-2-3 on account of the unadjusted charges for 1915-16 and previous years	6,20,583	15	11
Balance available for 1916-17 ... Rs.	1,44,497	5	8
Grant made from *Revenue*	1,00,000	0	0
Renewed Grant	4,048	5	5
Total Grant from Revenue ... Rs.	1,04,048	5	5
Expenditure ... ... ,,	88,207	1	0
Balance renewed for 1916-17 ... Rs.	15,841	4	5

42. Thus against a total grant of Rs. 8,69,129-11-0 the total expenditure amounted to Rs. 7,08,791-0-11. Deducting Rs. 3,57,682-2-3 being the amount of charges adjusted as shown above, the net expenditure amounted to Rs. 3,51,108-14-8. The expenditure of Rs. 88,207-1-0 shown against the grant from Revenue is after deducting a sum of Rs. 12,170 realised as concession money, and another sum of Rs. 5,306-10-11 being a portion of the expenditure on the improvement of Worli Road for which a separate grant had been voted but which through inadvertence had been debited to the general street improvement grant.

43. The following is a comparative statement of set-backs enforced, &c., during the last five years:—

Year.	Set-backs enforced.	Set-backs added.	Set-backs paid for.	Area of ground added to streets (in square yards).
1911-1912	109	114	109	8,838·33
1912-1913	124	148	85	25,829·47
1913-1914	107	92	65	9,947·53
1914-1915	65	51	104	4,652·79
1915-1916	46	56	102	8,166·56

44. The details of the area of 8,166·56 square yards shown above, together with its value, are as follows:—

Ward.	Area in square yards.	Value.
		Rs. a. p.
A	447·84	23,970 6 5
B	146·00	21,855 0 0
C	592·92	75,336 4 10
D	1,209·00	36,679 0 0
E	1,461·83	27,623 14 9
F	470·97	1,474 10 3
G	3,838·00	26,251 0 0
Total ...	8,166·56	2,13,190 4 3

45. The street widening due to the addition of set-backs was as follows:—

	Area in sq. yds.
Armenian Lane	118
Bastian Road	74
Bazar Gate Street	8
Abdul Rehman Street	81
Abdul Rehman Street (junction of Nakhoda Street)	164
Abdul Rehman Street (junction of Bibijan Street)	45
Memonwada Road	24
Jackeria Masjid Street	10
Musjid Bunder Road (junction with Narayen Dhuru Street)	58
Dongri Street	16
De Souza Street	13
Umerkhady Street	180
Nishanpada Road	50
Jail Road	648
Islampoora Street	18
Bhuleshwar Street	23
New Hanuman Lane	36
Bapu Khote Street	4
Mirza Street	7
3rd Agiary Street	6
3rd Bhoiwada	7
3rd Pinjrapole	28
Shamset Street	14
Kalbadevi Road	89
Cavel Street	3
Kika Street	11
Mumbadevi Road	57
Girgaum Road	111
Khatteralli Lane	8
Mughbhat Cross Lane	347
Girgaum Road	151
Khetwady 12th Lane (junction with Khetwady Back Road)	24
Lamington Road	1,457
Mount Road	30
,, ,,	939
Kamatipoora 1st Street	19
Dockyard Road	950
2nd Carpenter Street	31
Kamatipoora 4th Street	67
Nawab Tank Road	48
Bhoiwada Cross Road	8
Parel Village	835
Currey Road	563
Worli Road	806
De Lisle Road	313
Purbhadevi Road	51

5. Improvement of private streets.

46. Action under Section 305 of the Municipal Act was taken for the improvement of the following streets :—

2nd Pophalwady.

Sorabji Santook Lane.

Assembly Lane.

Old Hanuman 1st and 2nd Cross Lanes.

Mugbhat Cross Lane.

Khetwady Main Road.

Parel Cross Lane.

Fergusson Road Cross Lane.

6. Road repairs.

47. The following is a statement of expenditure incurred on the repairs and maintenance of roads :—

	Rs.
1. Full metalling (3,968,732 sq. ft.)	2,54,957
2. Full patching (1,582,699 sq. ft.)	59,420
3. Patching (small) including value of the balance of materials on site and miscellaneous works	1,38,788
4. Scraping and brushing	63,270
5. Repairs and maintenance of footpaths, bridges, culverts and road-side retaining walls ...	17,869
6. Maintenance and fencing of road-side trees	12,592
7. General repairs to tools, plant, &c.	40,483
Total ...	6,37,379

48. The scarcity of labour due to the war was markedly felt in the beginning of the year. The supply of materials was also unsatisfactory. The roads were damaged to a greater extent than usual owing to the protraction of the monsoon and to the increase of heavy tractors.

49. Care is observed to notify the public Department and Bodies who are in the habit of opening streets in connection with the water, gas, electric, &c., mains of the intention to improve the carriage-ways or foot-ways so as to obviate disturbance of new work as much as possible.

50. The rate for full metalling worked out to 10·87 pies per square foot or Rs. 5-10-7 per 100 square feet as against the rates of 10·09 pies and Rs. 5-4-1 respectively last year and the standard estimated rate of Rs. 5-12-0. Against this must be put the large increase of 35 per cent. in the price of metal over last year and the fact that instead of laying the usual 3" coat, many of the roads were bottomed with rubble packing, whilst on others from 6" to 9" of metal was used to bring them up to a proper camber and enable them to resist the damaging effects of heavy tractors until such time as proper foundations can be provided.

51. There has been a marked improvement in the amount of work done by the Steam Rollers fitted with recorders, with a corresponding increased efficiency of the labour staff.

7. Road Foundations.

52. Most of the city roads are without a sound foundation which leads to their rapid deterioration and an increase in the cost of their maintenance. It has therefore been decided to gradually provide a sub-crust of hand-set rubble, and accordingly during the year under report the following streets, most of which carry heavy cart traffic, were provided with a packing of new rubble 10 inches thick :—

Names of Roads.	Area in sq. feet.	Cost.
		Rs.
Frere Road (from Ballard Road to St. George's Hospital) ...	47,923	13,697
Kalachowki Road (from Parel Road to Reay Road)	19,000	2,298
Reay Road (from Victoria Road to the Harbour Defence Yard).	45,500	4,529
Lamington Road (from Club Road to Foras Road)	64,600	1,984
Arthur Road (from Jacob's Circle to Arthur Road Hospital) ...	23,400	1,700
Mount Road (from Victoria Road towards North)	19,650	1,726
Foras Road (from Lamington Road to Grant Road Station) ...	10,750	817
Tank Bunder Road (from Reay Road towards the East) ...	2,640	510
Elphinstone Bridge Road (from Frere Road to East toe of the Bridge)	3,600	468
Kurla Street (from Frere Road towards West)	6,000	260
Clive Road (from Junction with Clive Road Cross Lane towards South)	3,240	421

53. A special grant of Rs. 50,000 has been made in the budget for the year 1916-1917 for improving the foundations of roads.

8. Road Excavation.

54. The following lengths of roads were opened by various agencies :—

	R. ft.
Water Department	33,889
Drainage Department...	26,292
Bombay Electric Supply & Tramways Co., Ld.	49,545
Callender's Cable and Construction Co. (for the Tata Hydro-Electric Supply Co.)	2,280
Bombay Telephone Co.	18,734
Bombay Gas Company	22,808
Bombay Port Trust private parties, &c.	1,595
Total R. ft. ...	155,143

55. This is equivalent to nearly 29½ miles out of a total of 168 miles of roads in the City and is about the same length as that disturbed last year.

56. The cost of filling in the excavations, including private street works, amounted to Rs. 2,99,155-7-7.

9. Road Watering.

57. The total expenditure against the budget grant of Rs. 71,000 amounted to Rs. 82,680-5-6. An additional grant has been applied for.

58. The reason for the excess was the absence of provision for treatment of the roads with Akonia, and the watering of some of the main roads three times a day instead of twice.

59. The total number of hydrants fixed during the year for road watering was 51, of which 41 were of the stand-post pattern and the rest were underground hydrants.

10. Road Materials, Appliances, etc.

60. The total quantity of road materials purchased during the year and their cost were as follows :—

Description of Materials.	Quantity in C. ft.	Cost. Rs.	a.	p.
From Municipal Contractors—				
Metal	1,383,035	1,53,862	10	4
Sand	344.074	31,611	12	10
Shingle	981	93	3	1
Sandstone	233,599	18,306	11	0
Rubble stone	192,702	19,270	3	2
Red hill earth	23,811	2,827	8	11
From the City Improvement Trust—				
Metal $1\frac{1}{2}$"...	51,509	2,837	8	9
Metal 1"	52,692	4,361	15	4
Chips $\frac{1}{2}$"	14,551	1,712	7	10
Rubble stone	291	13	1	5
Stone dust	1,823	22	12	7
	Total ...	2,34,919	15	3

61. The comparative rates per 100 c. ft. of materials for the years 1914-15 and 1915-16 were as follows :—

Description of Materials.	Rate paid in 1914-15. Rs. a. p.	Rate paid in 1915-16. Rs. a. p.	Remarks.
Municipal Contractors—.			
Metal	8 3 0	11 2 0	
Sand	9 8 0	9 3 0	
Shingle	15 0 0	10 0 0	Less 5 per cent.
Sandstone	8 10 0	7 15 0	
Rubble stone	11 0 0	10 0 0	Less 5 per cent.
Red hill earth	12 8 0	12 8 0	Less 5 per cent.
City Improvement Trust—			
Metal $1\frac{1}{2}$"	No purchase.	5 8 0	Upto 31st December 1915.
		5 12 0	From 1st January 1916.
„ 1"	„	8 0 0	Upto 31st December 1915.
		9 0 0	From 1st January 1916.
„ $\frac{1}{2}$"...	„	11 8 0	Upto 31st December 1915.
		12 8 0	From 1st January 1916.
Rubble stone	„	4 8 0	Upto 31st December 1915.
		4 14 0	From 1st January 1916.
Stone dust...	„	1 4 0	From 1st January 1916.

11. Dust Preventive Measures.

62. The treatment with Akonia has had to be temporarily abandoned on account of its cost.

63. About 45 roads, inclusive of bridges, cabstands, roads in the Victoria Gardens, &c., of an aggregate area of 1,849,571 square feet were painted with tar in 2 coats, the first coat being mixed with ½" chips and the second with metal grit.

64. The following roads or portions thereof with an aggregate area of 290,496 square feet were grouted with tar :—

Colaba Road.
Napier Road.
Cawasji Patel Street.
Fuller Road.
Church Gate Street.
Wodehouse Road.
Queen's Road.

65. The grouting is done in 3 layers of metal, 2½", 1½" and grit.

66. The total quantity of tar used in these operations was 120,465 gallons and cost Rs. 42,162-12-0. The total cost of the tarring operations amounted to Rs. 1,18,690-7-10.

67. The Government Forest Officer having made an offer of Jamba timber blocks from the Kesralga Saw Mills, North Canara, for experimental road pavement, the offer was availed of, and a portion of Frere Road from Carnac Road to Carnac Siding was paved with these blocks. The adjoining strip of road surface was prepared with bituminous macadam, both the strips having been previously bottomed with cement concrete. The cost of the whole work has been Rs. 6,459-5-7.

68. A portion of the western side of Frere Road between Masjid Siding and Thana Street was also experimentally treated with bituminous metal at a cost of Rs. 5,176-7-6.

69. The result in both cases is being watched.

70. Another offer has been made by Messrs. Killick Nixon & Co. on behalf of the West Australian State Saw Mills, Perth, of "Powellized Karri-wood blocks" for road pavement. This is under consideration.

12. Tree-planting.

71. New trees were planted on Rampart Road, Esplanade Road, Hornby Road, Fort Street, Mint Road, Frere Road, Queen's Road, Cuffe Parade, Ormiston Road, Murzban Road, Cruickshank Road, Mayo Road, Princess Street, Arthur Road, Grant Road, Dadar Cross Road, Lamington Road, Gilder Street, Clerk Road, Moreland Road, Bellasis Road, Haines Road, Reay Road, Hardinge Road, Elphinstone Road, Junction Road.

72. The number of trees planted was 332, and the certified expenditure on the work amounted to Rs. 5,599-11-11 including the cost of 172 tree guards.

73. The improvement noted last year in the condition of roadside trees has been maintained and additional trees suited to the various new roads being opened are being reared in the nursery so as to be available for planting when required.

FOOTPATHS.

1. Footpaths Paved.

74. From a provision of Rs. 23,555-2-11 portions of footpaths along the following roads were paved at a total probable cost of Rs. 21,881-9-10 :—

	Area in sq. ft.
Mint Road	7,605
Junction of Gowalia Tank Road and Gibbs Road	1,629
Junction of Gowalia Tank Road and Pedder Road	459
Sussex Road	13,797
Walkeshwar Road	9,198
Trimbuck Parashram Street	2,556
Footpaths at Charni Road at its junction with—	
(1) Queen's Road	1,566
(2) Grant Road ... ... }	
(3) Sandhurst Road ... ... }	5,661
(4) Powwalla Street ... ... }	
Footpath at Victoria Road at its junction with Parel Road ...	4,401

2. Footpaths Formed.

75. New Footpaths were formed at the following places from the Budget grant for road repairs and maintenance of footpaths :—

	Area in sq. ft.
Hornby Road (junction with Church Gate Street)	946
Esplanade Road (junction with Medows Street)	693
Carnac Road (junction of Frere Road)	580
Cruickshank Road (near Tata's Statue)	3,700
Kika Street	165
Cawasji Patel Tank (junction with Kika Street)	874
Girgaum Road (near Agiari)	1,150
Girgaum Road (near Chira Bazar)	300
3rd Pinjrapole Lane	525
Kolbhat Street	200
Kalbadevi Road	300
Grant Road (junction with Bapty Road)	1,404
Bapu Khote Street	1,980
Bapu Khote Cross Lane	392
2nd Bhoiwada	200
Foras Road	3,000
Elphinstone Road	4,772

76. Footpaths were formed at the following places in the process of adding set-backs to roads :—

	Area in sq. ft.
Rampart Road	7,300
Bastian Road	304
1st Marine Street (North side)	2,890
1st Marine Street (South side)	6,489
Marine Lines	1,590
Dhobi Talao	1,930
Jail Road North	1,208
Abdul Reheman Street	392
Abdul Reheman Street (junction with Nagpada Street)	600
Abdul Reheman Street (junction with Bibijan Street)	840
Masjid Bunder (junction with Narayen Dhuru Street)	850
Umerkhadi Street	976
Fanaswadi (near 2nd Fanaswadi)	792
Kalbadevi Road (junction with Kolbhat Lane)	1,040
Dockyard Road	3,500
Mount Road	2,500
Currey Road	2,700
Parel Village	4,377
Worli Road	2,664
New Purbhadevi Road	531

DRAINAGE.

1. Construction of Drains and Drainage Structures.

77. The first section of the **Additional Ovoid Sewer in connection with the duplication of the main sewers on account of the duplication of the Tansa Main,** sanctioned by the Corporation under their Resolution No. 6826, dated the 5th February 1914, from the Love Grove Pumping Station to Clerk Road, the contract for which was given to Messrs. Allimahomed Haji Vallimahomed and Company under the Standing Committee's Resolution No. 5271, dated the 11th November 1914, was completed by them on 14th May 1915, the contract date for completion being the 23rd July 1915. Thus the section was brought into use before the rains of 1915, a connection having been made between the new sewer and the old sewer at Clerk Road. The ovoid sewer in Clerk Road was also disconnected from the old main sewer, and connected to the new sewer, thus effecting a considerable improvement in the working of the Clerk Road Sewer.

78. Tenders for the second section of the **Ovoid Sewer from Clerk Road to the junction of Lamington Road and Gilder Lane** were invited on the 15th September 1915. The lowest tender of Messrs. Allimahomed Haji Vallimahomed and Company amounting to Rs. 3,43,685·380 was accepted by the Standing Committee under their Resolution No. 4188, dated 4th October 1915. The work is progressing satisfactorily and is expected to be completed before the rains of 1916, the contract date for completion being the 25th June 1916. The total certified expenditure on the two sections upto the end of the year amounted to Rs. 5,87,879-2-11.

79. The work of cutting out **rocky barriers in the channel at Love Grove** has been abondoned for the reasons stated in the Report for 1913-1914.

80. All the main works at Love Grove in connection with the **Measures for Relieving the Surcharging of Sewers** have been completed and only small auxiliary works, such as the pavement for the coal yard, &c., were in progress during the year. Other subsidiary works had to be postponed owing to the difficulty of getting articles from England on account of the war. The total certified expenditure upto the end of the year including that on the subsidiary works amounted to Rs. 17,60,812-1-4.

81. Mr. G. Midgley Taylor's further report on the **sewerage of the North of the Island** with special reference to the type of the power to be adopted at the Pumping Station is still under consideration. As regards the main sewers, revised plans and estimates prepared on the lines recommended by Mr. Taylor have been sanctioned by the Corporation under their Resolution No. 5393, dated the 12th November 1914, but the execution of this work has had to be postponed owing to the financial conditions due to the War.

82. Some further pieces of land for the **extension of the Low Level Channel No. II from DeLisle Road to Dadar Road** through which the channel was constructed under the powers reserved to the Commissioner under Section 222 of the Municipal Act were purchased by the Municipality during the year. The total certified expenditure upto the end of the year amounted to Rs. 2,83,151-3-7.

83. The agreement for the construction of the **Storm-water Drain Through the Petit Orphanage Compound at Parel** referred to in the last year's Administration Report, has been prepared by the Municipal Solicitors and sent to the Trustees' Solicitors for their approval.

84. Tenders for the work of a **Storm-water Drain in Dadar Road (South)** were invited on the 27th September 1915. The lowest tender of Messrs. Fakir Mahomed Mehta & Co. amounting to Rs. 22,236·345 was accepted by the Standing Committee under their Resolution No. 4574, dated 21st October 1915. The work is almost complete. The total certified expenditure upto the end of the year amounted to Rs. 16,363-0-11.

85. A **Masonry Roadside Drain** was provided at **Walkeshwar Road** and the existing 6" **Storm-water Pipe Drain in the Government House Compound** was replaced by a 12" one from the upper gate to the sea at a cost of Rs. 6,043-1-3 through contractors Messrs. Haji Ahmed Haji Suleman & Co.

86. A 9" **Pipe Sewer and a 6" Rising Main** were laid departmentally in the **Passage to the North of the Low Level Channel No. II at DeLisle Road near Purbhadevi** at a cost of Rs. 10,017-12-2.

87. A 9" **Pipe Sewer** was laid in **Esplanade Road** through contractor Mr. Adamji Mulla Allibhai. The work was completed on 16th February 1916. The expenditure is being booked against the sanctioned grant of Rs. 14,430-0-0.

88. A 9" **Pipe Sewer** was laid in **Worli Road** through the Petty Works Contractors. The expenditure is being booked against the sanctioned grant of Rs. 4,853-0-0.

89. The work of **constructing a covered Storm-water Drain near Premises Nos. 471-489 on the East side of Girgaum Road and providing a Storm-water concrete covered side-drain in Kandewady Lane between Girgaum Road and Sadashiv Street and a Storm-water covered Masonry Drain in the lane between Sadashiv Street and Khetwady Lane** was entrusted to contractors, Messrs. Fakir Mahomed Mehta & Company, and it was completed on 29th February 1916. The expenditure is being booked against the sanctioned grant of Rs. 22,989-0-0.

90. **The wall between the Low-Level Channel and the Race Course** was reconstructed departmentally at a cost of Rs. 6,751-4-0. This was shared equally by the Western India Turf Club and the Municipality, the sanctioned Municipal grant being Rs. 3,891-0-0.

91. A **Masonry Storm-water Drain** was provided departmentally in a portion of **Forjet Street** at a cost of Rs. 3,779-5-1 against a grant of Rs. 5,594-0-0.

92. A 9" **Pipe Sewer** was laid in **Rose Cottage Lane** at a cost of Rs. 2,581-12-4.

93. A **Storm-water Drain with three full-sized water entrances and one half-sized water entrance** was provided at **French Road**, the work having been carried out by the Petty Works Contractors at a cost of Rs. 2,681-12-4.

94. The work of **providing new pattern half-sized water entrances in place of the old C. I. ones and providing new C. I. Frames, gratings and fair weather concrete covers to the existing water gullies in a ward** was carried out at a total cost of Rs. 21,140-15-5.

95. **A 12" C. I. Pipe Storm water Drain** was laid in a portion of the **Compound of the New Municipal Workshops at Foras Road** through the Petty Works Contractors at a cost of Rs. 9,451-10-7.

96. In pursuance of action taken under Section 305 calling upon the house owners of certain private streets to metal, pave, channel, light and drain the same, **Storm-water Drains and Sewers** were provided in the following streets :—

Parel Cross Lane.
2nd Phophawadi Lane.
Assembly Lane.
Dady Santoke Lane.
Sorabji Santoke Lane.

2. Alterations of Drains.

97. A further grant of Rs. 5,000 was provided for the replacement of Stoneware pipes in Colaba Sectional District by Cast Iron ones in addition to the balance of Rs. 2,055-3-8 renewed from the last and previous years' grants. The work was taken in hand in October 1915, and completed. The certified expenditure upto 31st March 1916, amounted to Rs. 54,936-14-6 out of a total provision of Rs. 57,140-4-1 sanctioned upto date.

98. The 6" Stoneware Pipe Drain at Falkland Road was substituted by a 9" one, at a total cost of Rs. 4,194-3-3.

99. The existing 8" Sealed Sewage Main in Warden Road was replaced by a 12" C. I. Pipe for a length of about 1,721 feet at a total cost of Rs. 10,083-10-4. The work was carried out departmentally from the budget provision of Rs. 10,000 plus the balance of Rs. 1,250 renewed from the last year's grant provided for the maintenance of Air and Sealed Sewage Mains.

3. Maintenance of Drains.

100. No damage of any kind was done either to the sea walls or to the Biological Installation in connection with the Malbar Hill Sectional Sewerage Works during the last rains.

101. The Storm-water drains in Reay Road, Connaught Road, Parel Road and Sopari Baug Road worked satisfactorily during the year.

102. There are about 115·70 Miles of Pipe Sewers, Systematic cleaning of these sewers has been done throughout the fair season. A double disc and cleaning rods have been passed through 38·24 miles of these sewers and the silt removed therefrom amounts to 1,762 tons or 44,825 c. ft.

103. There are 10·57 miles of Ovoid Main Sewers. About 14·38 miles of these sewers were scraped and 15·86 miles were traversed by the scraper and 328 tons or 8,370 c. ft. of silt removed therefrom.

104. There are 148·62 miles of Storm-water Drains out of which 33·69 miles were cleaned and 11,465·28 tons or 291,843·63 c. ft. of silt was removed at a cost of Rs. 3,813-11-3 against the sanctioned provision of Rs. 4,000.

105. There are 30 catchpits on Pipe Sewers and 9 on Main Sewers and the silt removed therefrom during the year amounted to 4,111·57 tons or 1,04,658·14 c. ft.

106. There are 460 underground flushing chambers to flush pipe sewers, and 13 flushing doors to flush ovoid sewers.

107. The construction of relieving arches for strengthening the old main drain in Falkland Road was undertaken departmentally and completed on 10th March 1916. The expenditure booked is Rs. 6,377-7-7 against the grant of Rs. 5,000 plus the renewed balance of Rs. 1,945-2-0 from the last year's grant.

108. The expenditure on the maintenance and upkeep of the open main drain and the low-level channels was Rs. 2,989-3-0 out of a grant of Rs. 3,000. An additional grant of Rs. 2,000 for removing the silt from the low-level channel on the North of Century Mills was sanctioned, and this work is now entrusted to Messrs. Bapu Satu and Company and is in progress.

109. The work of cleaning the open main drain at Worli was done at a cost of Rs. 3,020-8-10 out of the grant of Rs. 3,200 provided for the purpose and the silt removed amounted to 31,256 c. ft.

4. Ejectors.

110. The new ejectors at Stations Nos. 3, 4 and 5 in the Colaba District are working satisfactorily. Some minor works in connection with the Station No. 5 are in hand. The total certified expenditure upto the end of the year amounted to Rs. 1,08,202-5-1.

111. The fixing of the new tubbing and ejectors in the Mazagaon District No. II was completed during the year and the same are now in working order. The diversion of the sewers necessitated by this new Ejector Station and also on account of the New Victoria Road Overbridge was also completed during the year. The total certified expenditure upto the end of the year amounted to Rs. 30,500-6-5.

5. Latrines, Urinals and Night-soil Depots.

112. The removal of the existing corrugated iron ten-seated latrine and the reconstruction of the two ten seated latrines on the water carriage system at Bhoiwada was carried out through Contractors Messrs. Chunilal Harjivandas and Company at a cost of Rs. 6,618-15-1.

113. A Septic Tank and Hopper were provided on a Municipal plot of land at Dharavi near Sion Station at a cost of Rs. 6,907-7-4, the contractors being Messrs. Chunilal Harjivandas and Company.

114. The work of constructing night-soil depot with 2 hoppers on the triangular plot of land between the French and Sandhurst Road Bridges was carried out through Messrs. Haji Ahmed Haji Suleman and Company at a cost of Rs. 12,820-0-1.

115. Urinals were constructed at the following places during the year:—

3 seated trough pattern urinal at Bapty Road.

1 seated trough pattern urinal at the junction of Ali Umer Street and Janjiker Street.

4 seated trough pattern urinal at Gibbs Road.

5 seated trough pattern urinal at Bhatia Baug.

2 seated trough pattern urinal at 3rd Phophalwadi.

2 seated trough pattern urinal at the junction of Grant Road and Bapty Road.

6. Street and House Connections.

116. The street portions of the house drainage connection works in the City were carried out departmentally during the year, 340 connections being made at a total cost of Rs. 16,214-15-4. These connections serve 229 premises, of which 180 are drained on the closed system and 49 on the open system.

117. In addition to the above, 133 Storm-water connections were made at a cost of Rs. 4,569-4-0.

118. The Street connections referred to above relate to:—

1. New Buildings.
2. Alterations to existing buildings.
3. Premises in newly-sewered district.

119. Several 6" branch drains were laid for bringing certain undrained premises within 100 feet of the Municipal sewer as required by Section 231 of the Municipal Act. About 25 estimates and 315 plans were prepared with a view to the issue of notices under Sections 230, 231, 232A, 238, 257 and 260 of the Municipal Act.

7. House Gullies.

120. In addition to the fifty-four common house gullies which were remodelled in previous years, the work of relaying and regrading the 6" pipe drain in a passage situated at the west of Dadar Road, and providing additional inspection chambers was carried out during the year. The total cost of these works aggregated Rs. 98,402-13-6, out of which Rs. 98,086-3-2 have been recovered from the parties, leaving a balance of Rs. 316-10-4 unrecovered.

8. Miscellaneous.

121. Works to the extent of about Rs. 1,13,591-5-11 including repairs, alterations, and cleaning of sewers and drains generally and making minor additions thereto, and the drainage arrangements of the various Health Camps, etc., as also all new drainage works provided in the Budget for 1915-16 were carried out during the year. Out of these, works costing about Rs. 35,601 were carried out departmentally and the rest were executed through the agency of the Petty Works Contractors.

122. 31 Manhole frames and covers of storm-water drains were provided at Argyle Road at a cost of Rs. 2,785-13-10 out of a sanctioned grant of Rs. 3,000.

123. A new type of improved concrete covers for water entrances was introduced two years ago, and it has proved effective for prevention of mosquito breeding. The total number of such covers fixed is 1,346 as under, the cost having been met from the Miscellaneous Drainage Grant:—

In A	Ward	827
„ B	„	73
„ C	„	127
„ D	„	89
„ E	„	110
„ F	„	115
„ G	„	5
		1,346

124. Action was taken under Section 231 of the Municipal Act calling upon 5 of the owners of the properties comprised in the Malbar Hill sewered Districts to connect their premises with the new sewers. All the notices were complied with in the course of the year.

MECHANICAL BRANCH.

1. Municipal Workshops.

125. The following are the particulars of expenditure incurred during the year for departmental and private works, executed at the Municipal Workshops, for shop and supervision charges, tools and repairs to machinery, buildings, &c.:—

	Rs. a. p.	Rs. a. p.	Rs. a. p.
For Departmental Works—			
Labour	88,171 13 11		
Stores	1,37,357 8 4		
Piece-work, cart-hire, &c.	1,154 9 11		
		2,21,684 0 2	
For Workshops Stores—			
Labour	1,075 8 3		
Stores	6,041 1 11		
		7,116 10 2	
Total			2,28,800 10 4
For New Municipal Workshops—			
Labour	3,765 3 3		
Stores	8,383 4 7		
		12,148 7 10	
			12,148 7 10
For Shop Charges—			
Labour	5,388 2 1		
Stores	14,471 4 2		
Piece-work, contingencies, &c.	105 0 0		
		19,964 6 3	
For Supervision Charges, Establishment, Rent, &c.			
Establishment	18,968 7 1		
Piecework	0 10 6		
Repairs to buildings	278 7 0		
Rent paid to Government	6,648 0 0		
Contingencies	1,220 12 6		
		22,116 5 1	
Total Expenditure for working the Shops			42,080 11 4
Total Expenditure during 1915-16 was			2,88,029 13 6

126. The total expenditure during 1915-16 on account of Departmental Works, &c. (Rs. 2,21,684-0-2), for Workshops Stores (Rs. 7,116-10-2) and for fixing machinery in the 1st and 2nd section of the New Municipal Workshops (Rs. 12,148-7-10), aggregated with the amount charged for supervision, tools, shops, and repair job charges, &c. (Rs. 54,328-3-10) to 2,95,277 6 0

Add—Amount of incomplete jobs at the beginning of the year 1915-16 ... ... 2,475 8 8

2,97,752 14 8

Deduct—Amount of incomplete jobs at the end of the year 1915-16 ... ... 9,533 9 8

Thus the total amount of bills prepared by the Workshops in the year 1915-16 was Rs. ... 2,88,219 5 0

127. Percentage for Supervision, Shop, Repair Charges, &c.—

	Rs. a. p.	Rs. a. p.
The actual charges for the general working of the shops (Rs. 19,859-6-3) for rent and supervision (Rs. 22,221-5-1) amounted to		42,080 11 4
Add—Cost of Machinery &c., purchased for Workshops		1,300 10 0
The amount recovered on account of the abovementioned expenses by charging the fixed percentage of 25 per cent. on the cost of works executed at the shops was ...	53,197 5 5	
The difference between the actual cost of working the Municipal pumping engine *plus* 25 per cent. for shop and supervision, repairs, &c., and the fixed charges at which it was lent on hire to private parties and departmental works was	1,130 14 5	
The amount realized by sale of saw-dust, coal ashes and unserviceable articles, &c., was	2,830 1 9	
The balance in favour of the Workshops was therefore		13,777 0 3
Total ... Rs.	57,158 5 7	57,158 5 7

128. The following are the principal items of new works completed during the year :—

Description of Works.	Amount. Rs. a. p.
Making 105 iron tree guards for the Road Department...	1,874 9 9
Supplying timber for pipe cradles for the Love Grove Outfall Works	2,799 3 9
Converting 8 N. P. hydrants into 16 Hewett pattern hydrants	515 12 7
Do. 26 do. do. 52 do. do.	1,612 13 11
Do. 12 do. do. 24 do. do.	837 6 11
Reconstructing 25 dust-bin carts to new pattern for the Health Department	6,478 5 8
Making 20 wooden hand carts and 20 drain carts for the Road Department	5,579 11 3
Supplying timber and fittings for block moulds for the Love Grove Outfall Works	7,211 4 5
Making 12 guinea pigs cages' and 12 flea proof cages for the Municipal Analyst	566 15 6
Making 3,000 wooden keys for the Coorla Deonar Railway	797 13 6
Making 4 stand-pipes and 8 lengths of hose with couplings and branch pipes, etc., for the Erskine Road Market	914 1 6
Supplying timber for staging for the Love Grove Outfall Works	2,709 6 1
Renewing 3 road watering tanks with stands for the Road Department	711 11 3
Making 3 wooden racks for the G Ward Office, Health Department	506 1 1
Erecting mandaps for the Rate-payers general election...	4,640 0 6

129. Works completed which were commenced in the previous year :—

Description of Works.	Amount. Rs. a. p.
Erecting 700 gallon ejectors and cast-iron tubbing at Tank Bunder	5,029 6 6
Reconstructing 4 meat vans for the Market Department	1,989 13 9
Making and fixing new gutters to the roof of the Pedder Market	1,054 4 3
Removing and refixing the electric generating machinery at the Love Grove Pumping Station...	4,018 7 7
Supplying timber for derrick gantries for the Love Grove Outfall Works	11,888 3 9
Fixing a 20 H. P. oil engine and 10" centrifugal pump with pipe connection at the Worli-Koliwada Sluices...	2,433 8 10
Making 182 iron tree guards for the Road Department...	3,259 8 9
Making 12 cesspool carts for the Health Department	3,295 4 6
Supplying timber for staging at the Love Grove Outfall Works	1,627 9 6
Altering a 12-ton overhead travelling crane into a Goliath crane for the Love Grove Outfall Works	3,683 2 11
Removing and re-erecting second-hand machinery purchased from Messrs. Price, Wills & Reeves, and erecting new machinery for the Love Grove Outfall Works	4,980 7 2

130. The following are the principal items of new works which were in progress but were not completed before the close of the year :—

Description of Works.	Estimated cost. Rs. a. p.	Expenditure up to the 28th February 1915. Rs. a. p.
Fixing machinery, &c., in the 1st Section of the new Municipal Workshops at Foras Road	11,478 10 0	10,917 6 11
Fixing a coal tramway at the Love Grove Pumping Stations	1,445 0 0	269 5 11
Making 2 carts for carriage of dogs and 24 dog cages for the lethal chamber	1,900 0 0	1,821 0 5
Erecting portable engine and stone crushing machinery at the Sewree Depot	850 0 0	616 4 6
Making and erecting tyre furnace and shed at the new Municipal Workshops	5,864 0 0	1,370 1 7
Erecting machinery in the fitting and machine shops, &c., in the 2nd Section of the new Municipal Workshops	13,554 11 0	8,237 8 3
Making and fixing 18 road watering tanks with stands for the Road Department, E Ward...	4,787 12 0	4,663 12 6
Reconstructing 4 meat vans for the Market Department	2,000 0 0	1,921 3 7
Erecting portable engine and stone crushing machinery at the Nowroji Hill Depot	500 0 0	195 2 7
Supplying mat-yang timber for staging for the Love Grove Outfall Works	11,788 12 0	11,060 5 10
Laying wood block flooring in the fitting and machine shop of the new Municipal Workshops	4,369 0 0	841 4 9
Making 18 hand barrows for the Health Department	1,895 0 0	1,329 1 10
Making and fixing a travelling gantry at the Sankli Tank Fire Brigade Station	594 8 0	59 3 8
Making 6 iron meat stalls for private market at Dadar	1,023 0 0	927 1 7

131. In addition to these works the Workshops have continued to keep in repair the rolling stock of the Health, Road and Drainage Departments, the machinery of the Love Grove Pumping and Compressor Stations, the Colaba Compressor Station, the Ejector Stations in the Parel, Chinchpokli, Agripada, Malabar Hill, Mazgaon and Colaba Districts, Steam Rollers and Stone Crushing Machines, Fire Engines, Motor Refuse Wagons and Inspection Motor Cars, &c.

132. There was a considerable accession of work during the year on account of the Low Level Outfall construction at Love Grove, involving the supply of a large quantity of cut timber which was dealt with in the new woodworking shop at Foras Road. The conversion of the 12-ton overhead travelling crane, purchased from Messrs. Price Wills and Reeves for the same work, into a Goliath crane was a creditable piece of work and it is working quite satisfactorily.

133. On account of the work carried out during the year being in excess of anticipations, the grant for Stores had to be supplemented by temporary advances of Rs. 70,000 and Rs. 5,000 from Surplus Cash Balance, sanctioned under Corporation Resolutions No. 6496 of the 17th January 1916 and No. 755 of the 1st May 1916, respectively, pending recoveries for the several works. It was also necessary for the same reason to supplement the grant for Extra and Overtime Labour by transfers of Rs. 4,250 and Rs. 1,700 from savings in the grant for Permanent Labour, *vide* the Standing Committee's Resolutions No. 5883 of the 15th December 1915 and No. 7434 of the 23rd February 1916, respectively.

134. The following purchases of tools and plant to the debit of the Workshops profit and loss account were made during the year:—

(*a*) A No. 5 Pulsometer pump from Messrs. Duncan Stratton & Co., in February 1916, at a cost of Rs. 565.

(*b*) A hand power Chatwin screwing machine to screw bolts upto $1\frac{1}{2}$" and tubes upto 2" from Messrs. Duncan Stratton & Co., in March 1916, at a cost of Rs. 550.

135. The following machinery and plant on order for the new Workshops was received during the year:—

Description.	Cost.	Contractors for the supply.
	Rs. a. p.	
45 B. H. P. 3 phase induction motor for driving machine shop main line shaft	2,632 8 0	Messrs. Turner Hoare & Co.
20 B. H. P. 3 phase induction motor for driving machine shop bay line shaft...	1,646 12 0	Do.
Electric connections to motors...	1,599 10 0	Do.
Main line and bay line shaftings with bearings and brackets, &c., erected complete	3,278 1 0	Do.
Sensative radial drilling machine	1,438 8 0	Messrs. Macbeth Brothers & Co.
2 Nos. Emery tool grinders, 20"	730 0 0	Do.
24 Nos. Vice bench legs	681 12 0	Messrs. Turner Hoare & Co.
Plate bending rolls to take 8'-0" × $\frac{5}{8}$" plates	3,470 0 0	Do.
1 Ton pillar forge crane	1,197 0 0	Messrs. Macbeth Brothers & Co.
1 Cwt. pneumatic hammer	2,467 8 0	Do.

136. The following machinery and plant for the same work was received during the year but the bills were not passed for payment up to the close of the year:—

Description.	Contractors for the supply.
5 Ton overhead travelling crane	Messrs. W. H. Brady & Co.
18 Nos. Smiths' Hearths	Do.
Cast iron blast mains for Smiths' hearths	Messrs. Macbeth Brothers & Co.
Overhead smoke pipes and chimneys for Smiths' hearths ...	Do.

137. Messrs. Richardson and Cruddas, Contractors for steelwork in the 2nd Section of the new Workshops, completed their contract on the 3rd June 1915. The total expenditure passed against this contract aggregating Rs. 76,653-11-0, inclusive of Rs. 4,080 for Establishment charges, was Rs. 75,340-9-10.

138. Messrs. Virji Teju & Co., Contractors for masonry work in the same Section, completed their contract on the 31st October 1915. The total expenditure passed against this contract aggregating Rs. 1,32,548-0-3, inclusive of Rs. 6,240 for Establishment charges, was Rs. 1,19,325-1-6.

139. The erection of the motors and shafting in the new Fitting and Machine Shops was completed in December 1915 and the motors were started on the 1st January 1916. The transfer of the serviceable machine tools from the old Workshops to Foras Road was thereafter

commenced and some progress was made with the removals before the close of the year. The work will take much longer than was originally anticipated as it was intended to get all the new tools working before the removal of the old tools was commenced. Owing, however, to the exigences of the War, the delivery of all the new lathes on order and several other tools has been held up and it has in consequence been necessary to remove one tool at a time to prevent undue interference with the work in hand. The delay in the delivery of the new tools is severely felt as there are heavy arrears of machine work.

140. The electric lighting of the new Workshops Offices was carried out by Messrs. F. & C. Osler, Limited, in September-October 1915, at a cost of Rs. 1,401-4-0.

141. The storm-water drainage of the new Workshops compound was taken in hand by the Drainage Department in November 1915, at an estimated cost of Rs. 11,678 and was completed in January 1916, but the work was not charged off before the close of the year.

142. The packing and metalling of the compound was taken in hand by the Road Department in February 1916 at an estimated cost of Rs. 9,696-8-0 and was in progress at the close of the year. The amount expended upto the end of February 1916 was Rs. 115-3-11.

143. On account of representations by the Malaria Department it was found necessary to construct a mosquito proof reinforced concrete cover over the cast-iron tank placed above the boiler washout shed. The work was entrusted to Messrs. Marsland Price & Co., in January 1916 at a cost of Rs. 1,350, but was not completed before the close of the year.

144. The total expenditure passed against all heads in the construction of the new Workshops up to the close of the year was Rs. 3,54,239-11-4.

145. Plans and estimates for the 3rd and final section of the new Workshops amounting to Rs. 74,153 were submitted to the Commissioner in February 1916. These estimates involve an anticipated excess of Rs. 22,500 on the sanctioned grant of 5 lakhs for the work, the excess being almost entirely due to the great rise in the price of all materials and machinery since the first approximate estimates were framed, and steps were being taken at the close of the year to obtain sanction to the requisite additional funds for the work.

2. The Love Grove Pumping Stations.

146. The beam engines and pumps in No. 2 (new) Pumping Station worked fairly satisfactorily during the year but there was excessive wear and breakage in connection with the pumps due partly to the higher lift entailed in pumping through the old high level outfall during the fair season.

147. The principal breakages were as follows :—

(*a*) The breaking up of the delivery valve frame of the outside pump of No. 2 engine on the 4th May 1915.

(*b*) The fracture in two places of the plunger chamber of the above pump on the 10th May 1915.

(*c*) The breaking up of the delivery valve frame of the outside pump of No. 1 engine on the 16th May 1915.

(*d*) The breaking up of the suction valve frame of the above pump on the 17th October 1915.

148. The broken valve frames were replaced with spare frames, and in replacement of the spares, 2 new delivery frames of a stronger pattern were ordered at a cost of £ 87 each and 1 new suction valve frame similarly strengthened at a cost of £88.

149. The fractured plunger chamber was temporarily repaired and reinforced with concrete pending the receipt of a new chamber which was ordered at a cost of £ 290, *vide* the Standing Committee's Resolution No. 2667, dated the 28th July 1915.

150. To minimise as far as possible the chance of further breakages it was decided in consultation with Mr. G. Midgley Taylor to attach a large air vessel to the delivery main of the pumps and this was ordered at a cost of £ 534, *vide* Standing Committee's Resolution No. 3015, dated the 11th August 1915.

151. All of the above orders were placed with the Lilleshall Co., the manufacturers of the plant, but owing to their being fully engaged on War work it was not possible for them to give any deliveries up to the time of framing this report and the situation is causing much anxiety.

152. Under his letter, dated the 30th July 1915, Mr. Midgley Taylor, as Arbitrator submitted his award in connection with the claims of the Lilleshall Co., against the Municipality for extras and damages for delay in the completion of the engine house buildings, &c. The amount awarded was £3,226-14-2. Out of this total a sum of £1,109 was due in completion of the contract amount of £40,100 and a further sum of £1,082-11-1 in payment of additional works regarding which there was no dispute, leaving a balance of £1,035-3-1 in settlement of the Lilleshall Co.'s claims amounting to £4,524-3-5 for damages, &c. Thus the total payments to the Lilleshall Co. amounted to £42,217-14-2. The final payment was sanctioned under the Standing Committee's Resolution No. 3810, dated the 15th September 1915.

153. On the closing down of the new low level Outfall Works for the Monsoon, the completed portion of the outfall was again brought into use from the 28th May 1915 and during the Monsoon the new pumps were assisted by the old Worthington pumps in No. 1 Station in maintaining a free outfall for an aggregate working period of 305 hours and 35 minutes. The assistance of one engine was sufficient for the greater part of the period but between the 25th and the 30th June 1915, when a total rainfall of 35·84 inches was recorded at Love Grove, it was necessary to keep two engines continuously at work.

154. Pumping through the high level outfall was reverted to from the 1st October 1915 on the resumption of work on the new low level outfall.

155. The combined total number of revolutions of all engines in No. 1 (old) Station was 374,716 and in No. 2 Station the total was 18,614,888. The sum of these totals equals 18,989,604 against 20,167,647 in the preceding year. The reduction is due to the greater efficiency of the new pumps which were working throughout the year as against 8½ months in the previous year.

156. The following table shows the total quantity of coal of different descriptions consumed during the year with their average rates per ton:—

Description of coal.	Tons.	Average rate.
		Rs. a. p.
Sejooah Rubble	2,582·5/20	16 8 0
Bhalgora Rubble	1,053·15/20	16 10 0
Jogta Steam	528·6/20	17 12 0
Lawries' Desharghur	134·9/30	19 0 0

157. The average rate per ton for all of these descriptions of coal was Rs. 17-7-5 as against Rs. 18-0-2·27 in the previous year, and the average daily consumption was 11 tons, 15 cwts., and 20 lbs. against 13 tons, 13 cwts., and 10·7 lbs. in 1914-15. This appreciable reduction was again due to the new engines having worked throughout the year as against 8½ months in the previous year.

158. The general repairs to No. 3 engine in the No. 1 Pumping Station, which were in hand at the close of the previous year, were completed in May 1915 and thereafter general repairs to No. 1 engine, including the renewal of the pump rams and bushes, were taken in hand and were in progress at the close of the year.

159. 980½ lbs. of "Turnorine" valve faces were purchased for the sewage pump valves in No. 2 Station, from Messrs. Turner Hoare & Co., in October 1915, at a cost of Rs. 2-6-0 per lb.

160. Under the grant of Rs. 27,417 sanctioned by Corporation Resolution No. 138, of the 6th April 1914, for paving the coal yard at the Pumping Stations and providing a light railway with tip wagons and turntables, etc., for the haulage of coal to the boiler houses, 4 tip wagons and 8 cast-iron turntables were purchased from Messrs. Macbeth Bros. & Co.

at a cost of Rs. 556-3-0 and Rs. 823-11-6, respectively, and subsequently 220 yards of 18 lbs. steel rails with fish-plates, &c., were purchased in October 1915 from the same firm at a cost of Rs. 775. Owing to difficulty in obtaining the required steel sleepers for the rails the same were made at the Municipal Workshops and the work of laying the rails and turntables, &c., was thereafter taken in hand by the Workshops and was in progress at the close of the year. The total expenditure on the work up to the close of the year, exclusive of the paving of the coal yard which was taken in hand departmentally by the Drainage Department in February 1916, was Rs. 5,332-2-11.

161. The work of fixing the electric light and power installation with connections, &c., was completed by the Municipal Workshops in February 1916 at a total cost of Rs. 4,018-7-7 and the plant is working satisfactorily.

162. The machinery in the screening and dredging house worked more satisfactorily during the year in consequence of the alterations noted in the previous year's report, but there was still excessive wear in screen and bucket conveyor chains. The set of "Armco" screen chains ordered for trial in 1914 from Messrs. S. Stott & Co., at a cost of Rs. 1,025-4-0 were received in April 1915 and were at once put to work and the results up to the present indicate that they are only slightly less susceptible to corrosion than the steel chains.

163. Three new sets of steel screen chains for the replacement of worn chains were also obtained from Messrs. S. Stott & Co., in June 1915, at a cost of £ 197-2-9 *plus* Rs. 32-9-0 cleaning charges, &c.

164. The bucket conveyor required extensive repairs and the rollers were rebushed with white metal and the links and pins were renewed by the Workshops at a cost of about Rs. 3,500. This conveyor has now been fitted with a water spray which it is hoped will reduce the amount of wear.

165. The increase in the water supply began to be seriously felt towards the close of the year and three engines working up to their rated capacity of 45 million gallons per day were unable to prevent a surcharge in the main sewer during the hours of maximum flow between 8 a. m. and 2 p.m. As the old high level outfall is unable to deliver any greater quantity no assistance could be given from No. 1 Pumping Station and consideration is therefore being given to a scheme for laying a temporary bye-pass pipe from the completed portion of the new outfall at an angle to the line of the present work, to allow of sewage being discharged through this bye-pass during the fair season.

166. Mr. G. P. Cable, 1st Engineer, was allowed 3 months' privilege leave from the 26th March 1915, and during his absence Mr. K. D. M. Forbes, Assistant 1st Engineer, took over the acting appointment. Mr. Cable subsequently applied for leave to join the Indian Army Reserve of Officers and on being gazetted was granted leave on furlough pay from the 13th August 1915 for the duration of the War. Mr. Forbes again acted as 1st Engineer from the date of Mr. Cable's relief up to the 13th September following and thereafter Mr. A. E. Jordan was appointed acting 1st Engineer on Rs. 500 per mensem with Rs. 100 per mensem house allowance in lieu of free quarters.

167. It was necessary to obtain transfers during the year to supplement the Station grants as follows :—

(*a*) Transfer of Rs. 1,350 to the grant for Establishment on account of the leave granted to the 1st Engineer, *vide* the Standing Committee's Resolution No. 5480 of the 1st December 1915.

(*b*) Transfer of Rs. 6,000 to the grant for Repairs to Machinery on account of replacement of breakages in No. 2 Station and heavy repairs to the bucket conveyor, *vide* the Standing Committee's Resolution No. 6916 of the 2nd February 1916.

(*c*) Transfer of Rs. 10,500 to the grant for Stores and Contingencies on account of the renewal of the plunger chamber of No. 2 engine and broken valve frames previously alluded to, *vide* the Standing Committee's Resolution No. 4098 of the 29th September 1915.

(*d*) Transfer of Rs. 200 to the grant for Repairs to Buildings to meet the cost of erecting a scaffolding to the top of No. 2 Station chimney which was damaged by lightning in the previous year, *vide* the Standing Committee's Resolution No. 4947 of the 11th November 1915.

168. All of the above transfers were met from savings in the grant for Fuel at the same Stations.

169. Under Corporation Resolution No. 176 of the 8th April 1915 an expenditure of Rs. 23,058 was sanctioned for the following supplementary works at the Stations :—

(1) Erection of wooden shutters in the front openings of the new boiler house at an estimated cost of Rs. 321. This work was carried out by the Petty Works Contractors under the supervision of the Drainage Department at a cost of Rs. 265-5-1.

(2) Constructions of a new road along the south and east sides of the new engine house and pitching the slopes of the approach road to the engine house at an estimated cost of Rs. 7,826. The latter work was carried out by the Petty Works Contractors under the supervision of the Drainage Department at a cost of Rs. 519-8-2 and the former work was in progress by the Road Department, the amount expended up to the end of the year being Rs. 4,010-5-11.

(3) Construction of a glazed porch in front of the main entrance of the new engine house and fixing a glazed skylight in the west wall of the engine house at an estimated cost of Rs. 2,805. The latter work was carried out by the Petty Works Contractors but the former work could not be taken in hand owing to the necessity of building chambers round the openings above the discharge well in front of the engine house to take the surge of the discharge while pumping through the high level outfall.

(4) Extending the bucket and band conveyors for the dredging and screening plant to deliver above ground level at an estimated cost of Rs. 4,818. The materials for this work have to be supplied by Messrs. S. Stott & Co., the manufacturers of the plant, but they have expressed their inability to take the work in hand at present owing to pressure of War orders.

(5) Removing and reconstructing the retaining wall and filling in the existing low level silt and screenings delivery passage to ground level at an estimated cost of Rs. 7,028. This work is dependent upon the previously mentioned work and could not therefore be taken in hand.

(6) Providing railings to steps in front of the new engine house and fixing lead and galvanized iron sheet weathering to the roof at an estimated cost of Rs. 260. The first mentioned work is contingent upon the construction of the porch and was not therefore taken in hand and the latter work was carried out by the Workshops at a cost of Rs. 104-5-10.

170. With regard to the question of supplementing the pumping plant at the Stations to deal with the increased water supply it was mentioned in the previous year's report that the matter had been referred back to Mr. Midgley Taylor for a re-consideration of the site, &c. Mr. Taylor submitted a further report under his letter of the 30th September 1915 and forwarded a preliminary design for the plant consisting of five electrically driven centrifugal pump units of 15 million gallons capacity each and his proposals were under consideration at the close of the year. It will not be possible to take any definite steps towards installing this much needed addition until after the close of the War.

3. The Love Grove Compressor Station.

171. The machinery of the Compressor Station and the several Ejector Stations in the Parel, Chinchpokli, Agripada, Malabar Hill and Mazagon Districts worked fairly satisfactorily during the year.

172. The combined number of revolutions run by Nos. 1 and 2 (large) compressor engines during the year was 31,339,130. The revolutions of Nos. 3 and 4 (small) engines amounted to 60,441,040 during the same period. The previous year's totals were 34,847,194 and 24,992,289 respectively. The small engines are half the capacity of the large, so that the net increase in revolutions during the year on the basis of a large engine as compared with the previous year was 14,216,312. This heavy increase was principally due to the air pressure being raised 3 lbs. during the monsoon season to speed up the discharging capacity of some of the ejector stations.

173. The total quantity of sewage lifted by the ejectors worked from the station during the year was approximately as follows :—

Ejector Station.	Quantity of sewage lifted in gallons.
No. 1 Fergusson District, DeLisle Road	399,864,000
No. 2 do. Arthur Road	457,680,000
No. 1 Parel District, Elphinstone Road	227,901,000
No. 2 do. Chinchpokli Road	149,436,000
No. 3 do. Sewri	33,751,200
No. 1 Mazagon District, Church Street	161,185,200
No. 2 do. Tank Bunder	99,584,600
No. 1 Agripada District No. 2 do.	50,650,350
No. 1 Malabar Hill District, Warden Road	75,913,250
No. 2 do. do. Nepean Sea Road	21,436,000
No. 3 do. do. Gamdevi Road	29,909,600
No. 1 Elphinstone District, Frere Road	66,206,250
Total Gallons ...	1,773,517,450

174. The above total shows an increase of 1,580,350 gallons on the total of the previous year.

175. 2,457 tons, 8 cwts. and 3 quarters of Sejooah rubble coal, 1,050 tons of Bhalgora rubble coal, 378 tons, 6 cwts. of Ghussick steam coal and 19 tons, 18 cwts. and 3 quarters of Jherria rubble coal were consumed during the year. The average rate paid for the above coal was Rs. 16-9-8·7 per ton against Rs. 17-7-7·7 per ton in the previous year, and the average daily consumption was 10 tons, 13 cwts. and 23 lbs. against 9 tons, 17 cwts., 3 quarters, 23 lbs. in 1914-15. In consequence of the increased consumption, which was due to the higher speed run by the compressor engines, the grant for fuel had to be supplemented by a transfer of Rs. 7,231 from savings in the fuel grant at the Love Grove Pumping Station, *vide* the Standing Committee's Resolution No. 5334 of the 24th November 1915.

176. The intermediate cylinder connecting rod of No. 2 engine broke in the fork while the engine was at work on the 11th September 1915 without causing further damage, and on the 12th December following the high pressure cylinder connecting rod of the same engine broke in a similar manner. In this case the damage was not confined to the broken rod as the crosshead guide was also broken and the piston rod bent. The breakages appear to have been due to fatigue of the metal combined with a somewhat weak section, and the new rods, one of which was supplied by Messrs. Turner Hoare & Co. of English manufacture at a cost of Rs. 232 and the other by Messrs. Richardson & Cruddas of their own manufacture at a cost of Rs. 235, have been strengthened.

177. Under the Budget provision of Rs. 7,500 for the purchase of a new boiler to cope with the increase of work at the station a 30 N.H.P. loco type boiler was purchased from Messrs. Macbeth Bros. & Cos. in July 1915 at a cost of Rs. 5,080, *vide* the Standing Committee's Resolution No. 8161 of the 10th March 1915.

178. The 15 inch cast iron sealed sewage main in Fergusson Road again required extensive renewals and it was necessary to replace forty-two burst pipes during the year.

The total expenditure under the grant was Rs. 10,277-11-5 and additional grants and transfers amounting to a total of Rs. 8,500 were obtained to supplement the grant as follows :—

Amount.	Transfer from	Standing Committee's Resolution No.
Rs.		
2,000	Surplus Cash Balance	2389 of 14th July 1915.
1,200	Section 8, Love Grove Compressor Station. Purchase of a new boiler.	3962 of 22nd Sept. 1915.
1,800	Section 5, Disposal of Town sweepings. Transport.	3962 of 22nd Sept. 1915.
2,000	Section 2, Love Grove Pumping Station. Fuel.	5730 of 7th December 1915.
1,000	Do. do. ...	7432 of 23rd February 1916.
500	Do. do. ...	8514 of 29th March 1916.

179. It has been decided, owing to the inevitable delay which must now take place in draining the north of the Island in consequence of the War, that this sealed sewage main must be renewed and a sum of Rs. 25,000 has been sanctioned as a first instalment in the Budget for 1916-17 for the work which will be shortly taken in hand by the Drainage Department.

180. The renewal of the worn 8″ steel sealed sewage main in Warden Road between the Mahaluxmi Battery and Peddar Road with a cast iron main of 12″ diameter was taken in hand by the Drainage Department in November 1915 and up to the end of the year a length of about 1,720 feet from the Battery northwards had been completed.

181. The substitution of the two ejectors of 250 gallons capacity each at Tank Bunder by the pair of 750 gallon ejectors removed from the junction of Elphinstone and Carrol Roads, which was in hand at the close of the previous year, was completed in June 1915 and the larger ejectors were started on the 23rd of the same month. After the close of the monsoon the old ejectors were removed and sold as scrap and realised Rs. 1,625.

182. Under their Resolution No. 8165 of the 10th March 1915, the Standing Committee sanctioned the acceptance of Messrs. Ramji Keshowji and Co.'s tender for the construction of 30 semi-permanent huts on vacant ground at the Compressor Station for the accommodation of workmen at the Love Grove Pumping and Compressor Stations until such time as permanent quarters can be provided. The work was thereafter taken in hand and was completed in July 1915. It was however found subsequently necessary to connect the washing places and latrines, built in connection with these huts, to the sewer at an estimated cost of Rs. 780 and as the savings in the original grant were insufficient to meet the charge, a transfer of Rs. 550 was obtained from savings in the grant for fuel at the Love Grove Pumping Stations, *vide* the Standing Committee's Resolution No. 7411 of the 23rd February 1916.

4. The Colaba Compressor Station.

183. The machinery of the Compressor Station and the five Ejector Stations served therefrom worked satisfactorily during the year but there were several complaints of a surcharge in the sewers of No. 4 District during the monsoon owing to the insufficient capacity of the ejectors serving the District to deal with the heavy flow.

184. The total quantity of sewage lifted during the year amounted approximately to 527½ million gallons against 506 million gallons in 1914-15. The total number of revolutions run by the compressor engines was 55,802,202 against 53,148,264 in the previous year.

185. The total number of units of electrical energy consumed during the year was 424,932 against 385,418 units in 1914-15.

186. There were 8 interruptions in the electric supply to the Station during the year being 7 less than in the previous year. The maximum duration of the interrupted supply was 2 hours on the 27th January 1916, and the average of all the interruptions was 1 hour and 10 minutes. None of these stoppages necessitated the use of the reserve steam plant.

5. Storm Water Sluices.

187. The question of improving the arrangement for the discharge of storm-water by the installation of large capacity low lift pumps at Worli, and other works mentioned in the previous year's report, was kept in abeyance during the year on account of the War.

188. The erection of the oil engine and 10" centrifugal pump purchased, *vide* Corporation Resolution No. 5375 of the 12th November 1914 for the removal of stagnant water from the Worli Storm-Water Channel during the fair season, which was in progress at the close of the previous year was completed in May 1915, but on account of the close proximity of the monsoon it was not started until the following October.

189. The plant has since worked satisfactorily and during the fair season prevented much of the flooding of the low lying areas adjacent to the channel which formerly took place during neap tides. It is however found to be far short of the capacity required to entirely drain the channel.

190. There being no budget provision for working the plant the Standing Committee under their Resolution No. 3961 of the 22nd September 1915 sanctioned a transfer of Rs. 1,100 from savings in the grant for fuel at the Love Grove Pumping Station to meet the charge for 5 months up to the 29th February 1916.

191. The total cost of purchasing and erecting the plant, estimated at Rs. 7,800 was Rs. 7,678-11-10.

6. Inspection Motor Cars.

192. The mileage run by Motor Cars Nos. 1674, 1675, 1676 and 2126 for the respective use of the Health Officer, the Deputy Executive Engineer, Drainage, the Executive Engineer and Deputy Executive Engineer, Mechanical Branch, was as follows :—

No.	1674	7,800	miles.
„	1675	4,709	„
„	1676	7,809	„
„	2126	7,040	„
	Total ...	27,358	miles.

The above total shows a decrease of 1,188 miles on the total for the previous year. This was principally due to the reduced mileage of car No. 1675 which was laid up from June to August 1915 for thorough overhaul, re-upholstering and repainting by the French Motor Car and Electric Co. at a cost of Rs. 1,271.

193. The cost of maintenance, inclusive of establishment up to the close of the year, was Rs. 8,882-13-2 which is equal to an average running cost of 5·19 annas per mile as compared with 5·26 annas per mile in 1914-15.

194. In consequence of the insufficiency of the grant of Rs. 6,000 for maintenance it was necessary to supplement it by a transfer of Rs. 1,500, *vide* the Standing Committee's Resolution No. 6193 of the 5th January 1916.

OVERBRIDGES.

1. New Overbridges.

195. The construction of the **Currey Road Overbridge** has been completed except the approach along DeLisle Road which will shortly be commenced by the Railway Company.

196. Three of the chawls acquired in connection with the Curry Road Overbridge have been sold for Rs. 40,500 and the amount has been credited to the Overbridge Grant.

197. The Railway Board have not yet sanctioned funds for the construction of the **Clerk Road Overbridge, B. B. & C. I. Railway.**

198. The Corporation having sanctioned an 80 feet width for the **DeLisle Road Overbridge** negotiations have been opened for the acquisition of the additional properties required.

199. The final alignments of **Dadar Overbridge** has been finally settled. Detailed plans are being prepared by the Railway Company in consultation with the Bodies concerned.

200. Arrangements have been made for disposing of surplus land acquired in connection with the **Clerk Road Overbridge, G. I. P. Railway**, with a view to the realization being utilized for other Overbridges.

201. The properties acquired in connection with the overbridges, which have not been pulled down, continue to be rented to tenants.

202. The certified expenditure payable by the Municipality for all the overbridges during the year amounted to Rs. 20,072-11-8.

2. Repairs, etc., to existing bridges.

203. The widening and raising of the **Elphinstone Bridge** and its two approaches by the G. I. P. Railway Company was completed and the work was handed over to the Municipality for maintenance. The one-third share payable by the Municipality was under settlement.

OPEN SPACES.

1. Existing open spaces.

204. The following is a statement of existing open spaces in the City belonging to Municipality :—

Serial No.	Ward.	Description.	Area in sq. yds.	Remarks.
1	A	King (Lane between houses Nos. 255-257 and 263-265)	78	Partly used as a depôt for Municipal materials, &c.
2	A	Ghogha Street (between houses Nos. 62-64 and 76)	550	
3	A	Bhatia Bag at the Junction of Hornby Road and Fort Street	4,000	Being re-modelled.
4	A	Elphinstone Circle Garden	12,081	
5	A	A plot in front of Custom House Road..	2,569	Partly occupied by Police Chowki, partly by urinals and partly vacant.
6	A	Open space near Gun Carriage	3,065	Partly built over (Night-soil Depôt).
7	B	Mazagon and Wadi Bunder Road (near Hancock Bridge)	838	Used as a Municipal depôt.
8	C	Northbrook Garden (at Northbrook St.)..	12,085	
9	D	Gowalia Tank	25,322	Reclaimed and being used as a recreation ground.
10	D	Hanging Garden at Malabar Hill ..	52,675	
11	D	Bandstand at Chowpatti	1,772	
12	D	Mahalaxmi Flats	31 acres.	
13	D	Land 50 ft. on either side of the old main drain from Bellasis Road to Clerk Road.	39,727	
14	E	Gilder Tank (near Grant Road Station) ..	8,865	Reclaimed and partly being used as Health Camp, and partly as a Municipal depôt.
15	E	Recreation ground at Nagpada	2,821	
16	E	Matarpakhadi Tank	978	Reclaimed and being used as play ground.
17	E	Arthur Road Health Camp at the Junction of DeLisle Road and Arthur Road.	32,827	Partly occupied by a Health Camp, and partly used as a Municipal Depôt.
18	E	Plot at the junction of Foras Road and Falkland Road	1,422	A triangular piece of ground partly occupied by Drinking Fountain and partly used as a Municipal depôt.
19	E	Bhandarwada Reservoir Gardens ..	9,600	
20	E	Tank Street Garden at Khara Tank ..	2,489	
21	E	Foras Road Garden at the Junction of Foras Road and Falkland Road ..	3,005	
22	E	Dicks Garde at Parel Road opposite J. J. Hospital	2,740	
23	E	Victoria Gardens at Parel Road ..	215,552	
24	E	Old Foras Tank at DeLisle Road (near Sheep and Goat Markets)	11,235	Reclaimed and partly occupied by sheds.
25	G	Hornby Vellard (Storm-water Reservoir)	136 acres.	
26	G	Low ground to the North of Haines Road and Arthur Road Junction ..	150,000	Drying ground for Dhobies
27	G	DeLisle Road (at its junction with Purbhadevi Road in rear of "G" Ward Offices)	6,112	Vacant.
28	G	Worli Road, Middle Pakhadi	1,212	Partly occupied by Municipal latrines.
29	G	Dadar-Kumbharwada (on the north of Crown Mills).	2,674	Cart with cocoanut trees.
30	G	Do. do. do. ..	3,509	Do. do.
31	G	Mori Road Gardens (at the Junction of Mori Road and Lady Jamshedji Road).	5,272	
32	G	Land under cultivation at Mori Road ..	30,313	
33	G	Sweeping ground for reclamation near Sion Station.	35,470	
34	G	Do. do. do. ..	29,551	
35	G	Open space at Cleveland Bunder on Cleveland Road near Channel No. 1..	4,666	
			715,075 sq. yds. or 147·74 acres.	
			+ 31·00 „	Item No. 12.
			+ 136·00 „	„ „ 25.
		Total ..	314·74 acres.	

2. Open spaces created by the filling in of the tanks.

205. The following is a statement showing open spaces that have been or will be created by the filling in of tanks as sanctioned by the Corporation from time to time:—

Serial No.	Ward.	Name of Tank.	Area in sq. yards.	Remarks.
1	A	Nakhoda Tank (at Carnac Road) ..	6,890	Not filled in.
2	C	Dhobi Talao Tank	2,811	Filled in.
3	C	Cowasji Patel Tank at Girgaum Back Road and C. P. Tank Road ..	868	Do.
4	E	Mustan Tank at Bellasis Road & Huzaria Street Junction	4,597	Do.
5	E	Nawab Tank at Mazagon	3,283	Not filled in.
6	E	Nanabhoy Tank at Mazagon	520	Filled in.
7	F	Naigaum Tank at Naigaum Cross Road.	32,562	Partially filled in.
8	F	Footka Tank at Matunga	3,499	Not filled in and is very close to the King's Circle formed by the Improvement Trust.
9	F	Gowari Tank at Gowari Village ..	4,487	Not filled in.
10	F	Satgar Tank at Sion Road	6,621	Do.
11	F	Buran Tank at Buran Tank Road ..	1,509	Do.
12	G	Sambhoo Mahadev Pakhadi Tank at Worli Road	2,788	Do.
13	G	Saoli Tank at Purbhadevi Road ..	5,302	Do.
14	G	Jambli Tank, Mahim Bazar Road ..	8,857	Being filled in.
15	G	Hassali Tank at Lady Jamshedji Road.	5,371	Not filled in.
			89,913 sq. yds. or 18·57 acres.	

3. Open spaces proposed.

206. The following statement shows the open spaces proposed to be provided by the City Improvement Trust in Schemes V and VI, and also areas in Mahim, DeLisle Road and Love Lane suggested by this office for acquisition :—

Serial No.	Ward.	Description.	Area in acres.	Remarks.
		Open spaces within the Mahim Scheme as proposed by the Executive Engineer.		
1	G	Open space between the sea-shore and Lady Jamshedji Road, including Jambli Tank and space surrounding it.	66	
2	G	Dighee Tank at Upper Mahim Road ..	2·85	
3	G	Open space to the east of Purbhadevi Road including Saoli Tank and the space surrounding it	10·06	
		Open spaces to be acquired at Love Lane and at DeLisle Road.		
4	E	Love Lane	4	
5	G	DeLisle Road	6·42	
			89·33	
		Open space to be provided by the City Improvement Trust in their Scheme Nos. V and VI.		
		Scheme No. V, Matunga Scheme, as scored yellow on the plan	18	
		Scheme No. VI, Sion Scheme, as scored yellow on the plan	34	
			52	

TRAMWAYS.

207. There were no extensions or renewals of tram lines during the year.

208. The Corporation having under their Resolution No. 4313 of 7th October 1915, requested the Commissioner "to include in the Annual Report of the Municipality the number "of tram cars running in the City classified according to the different types approved by the "Corporation with the total carrying capacity of each car," the following information, obtained from the Bombay Electric Supply and Tramways Company, is given for the year under report:—

1. 50 bogie cars each carrying 52 persons sitting and, in addition, 8 standing during rush hours.
2. 50 bogie cars each carrying 20 persons standing and 44 persons sitting.
3. 49 single truck cars each carrying 32 passengers.
4. 1 single truck car carrying 40 persons sitting.
5. 30 trains each carrying 70 passengers.
6. 10 trains each carrying 78 passengers.

PUBLIC LIGHTING.

1. Gas Lighting.

209. The total number of gas lamps (burners) reported last year was 6,119. This was increased during the year by 134, making a total of 6,253 as shown in the following statement.

Wards.	Upright C. burner lamps. (1)					Inverted mantle lamps. (2)			Inverted mantle Ukay or Bombay lamps. (3)				High pressure gas lamps. (4)							Total No. of burners. (5)	Experimental high pressure gas lighting. (6)								Total No. of burners. (7)	Remarks.
	Single lights.	Double lights.	Triple lights.	Quadruple lights.	Quintuple lights.	Single lights.	Double lights.	Triple lights.	Single lights.	Double lights.	Triple lights.	Quadruple lights.	H. P. lamps at Flora Fountain.	1,500 C. P. lamps at Chowpatty.	1,500 C. P. lamps at Walkeshwar Road with 3 burners of 500 C. P. each.	3,000 C. P. lamp with 3 burners of 1,000 C. P. each.	800 C. P. lamps at Sandhurst Bridge.	100 C. P. lamps at Sandhurst Bridge.	1,600 C. P. lamps with 6 burners of 300 C. P. each at Fitzgerald Column.		3,000 C. P. lamps with 3 burners of 1,000 C. P. each at Hornby Road.	1,500 C. P. lamps with 3 burners of 500 C. P. each at Hornby Road.	1,000 C. P. lamps with 2 burners of 500 C. P. each at Lamington Road.	500 C. P. lamps on refuges at Lamington Road.	500 C. P. lamps at Abdul Rehman Street.	3 Lt. Inverted lamps at Falkland Road.	2 Lt. Inverted lamps at Falkland Road.	1 Lt. Inverted lamps at Walton Road.		
A ..	759	16	3	8	5	6	125	2	259	22	3	1	8	...	...	...	...	...	1	1,449	1	8	...	...	...	...	...	5	1,481	The lamps in column (6) were put up with a view to test the merits of gas against electric lighting. The latter has been discontinued, but the former has been maintained and will be continued till a comparison of cost under normal conditions becomes possible.
B ...	677	...	1	...	...	...	4	14	...	20	...	...	...	...	...	...	...	...	...	770	...	...	...	...	26	...	...	...	796	
C ...	706	..	...	...	...	5	85	16	...	...	...	...	...	...	...	...	...	...	...	839	...	...	...	...	...	...	...	...	829	
D ...	918	...	5	...	...	...	40	12	12	1	...	...	...	15	18	1	2	21	...	1,118	...	...	11	2	...	4	10	...	1,214	
E ...	1,066	4	2	...	...	...	10	1	31	16	...	...	...	...	...	...	...	...	...	1,166	...	...	...	...	...	...	...	...	1,166	
F ...	274	...	1	...	...	...	...	...	...	14	...	...	...	...	...	...	...	...	...	305	...	...	...	...	...	...	...	...	305	
G ...	368	...	...	...	...	...	...	...	14	40	...	...	...	...	...	...	...	...	...	462	...	...	...	...	...	...	...	...	462	
Total No. of burners.	4,768	40	36	32	25	11	428	135	316	226	9	4	8	15	54	3	2	21	6	6,139	3	24	22	2	26	12	20	5	6,253	

210. The total expenditure on gas lighting amounted to Rs. 3,92,285-9-9 exclusive of charges in respect of the high pressure gas lighting for experimental purposes.

2. Kerosine Oil Lighting.

211. As in the preceding years the kerosine oil lighting was carried out departmentally. The oil used was 125° Elephant Brand. The number of kerosine oil lamps in use was 1,344 as detailed below:—

Ward.	No. of lamps.	Remarks.
A	.....	Simla pattern burners.
B	167	
C	33	
D	89	
E	186	
F	516	
G	353	
Total ...	1,344	
No. of lamps in 1914-15...	1,357	

212. There was thus a reduction of 13 lamps which were replaced by gas lamps.

213. The total cost of kerosine oil lighting during the year amounted to Rs. 29,979-0-1. Deducting from this Rs. 91-15-0, being the amount recovered on account of departmental bills for lighting health camps, &c., and (2) from private parties for breakage of lanterns, parts, &c., the nett cost amounted to Rs. 29,887-1-1, which gives a rate of Rs. 22-3-10 per lamp per annum.

PRIVATE BUILDING CONSTRUCTION.

1. Buildings erected or altered.

214. The number of applications received under Section 337 for the erection of new buildings, and under Section 342 for alterations to existing buildings, during the year under report, as compared with those received during the preceding 4 years, is as follows :—

Year.	Under Section 337.	Under Section 342.	Total No. of buildings dealt with.	Total No. of applications.
1911-1912	1,061	1,017	2,078	3,407
1912-1913	1,132	1,079	2,211	3,618
1913-1914	1,175	947	2,122	3,528
1914-1915	880	1,068	1,948	3,558
1915-1916	930	1,124	2,054	3,461

215. It is frequently the case that two or more modified proposals are received in connection with one and the same building, hence the difference between the two totals shown above.

216. The majority of the plans received were conditionally approved.

2. Set-backs.

217. The following statement shows the amounts expended on set-backs from 1900-1901 to 1915-1916 :—

Year.	Paid from Capital.	Paid from Revenue.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.
1900-1901	.....	1,05,008 14 11	1,05,008 14 11
1901-1902	.....	1,27,430 1 8	1,27,430 1 8
1902-1903	.....	82,189 14 9	82,189 14 9
1903-1904	.....	1,12,128 7 5	1,12,128 7 5
1904-1905	.....	1,48,751 15 5	1,48,751 15 5
1905-1906	79,736 0 2	1,57,747 15 7	2,37,483 15 9
1906-1907	1,90,118 7 11	1,18,347 2 8	3,08,465 10 7
1907-1908	1,53,791 11 10	1,00,000 0 0	2,53,791 11 10
1908-1909	3,98,183 1 5	1,00,000 0 0	4,98,183 1 5
1909-1910	2,92,501 2 2	1,00,000 0 0	3,92,501 2 2
1910-1911	1,54,672 1 10	1,00,000 0 0	2,54,672 1 10
1911-1912	2,41,054 1 2	1,11,313 0 0	3,52,367 1 2
1912-1913	2,10,729 9 1	1,14,894 0 0	3,25,623 9 1
1913-1914	2,21,745 13 7	1,01,663 1 9	3,23,408 15 4
1914-1915	4,34,918 10 5	1,09,199 10 1	5,44,118 4 6
1915-1916	* 6,03,819 0 4	1,05,684 8 1	7,09,503 8 5
Total ...	29,81,269 11 11	18,55,343 1 1	48,36,612 13 0

218. The liability outstanding for land sanctioned to be acquired for set-backs amounted to Rs. 3,40,721-6-0.

* This is inclusive of a sum of Rs. 3,57,682-2-3 on account of the unadjusted charges for 1915-1916 and previous years. The actual nett expenditure was Rs. 2,46,136-14-1.

3. Enforcement of Building Regulations.

219. 2,363 notices were issued against house-owners under the various Streets and Building Sections of the Municipal Act, with the results shown in the following statement:—

Section of the Municipal Act.	Number of prosecutions.	Number of cases withdrawn on compliance with requirements.	Number of cases in which parties were warned and discharged.	Number of convictions.	Number of postponements falling during 1916-17.	Fines.
						Rs. a. p.
231	12	4	8	....	....	....
246A	3	2	....	1	....	10 0 0
297 (3)	9	1	4	3	1	33 0 0
305	46	33	9	....	4	....
308	29	5	3	20	1	55 0 0
311	3	3	....	....	....	....
322	19	8	11	....	....	....
344A	3	1	1	1	....	15 0 0
347	250	58	128	51	13	674 0 0
353	55	8	34	11	2	130 0 0
353A	125	21	41	54	9	718 0 0
354	116	21	69	20	6	742 7 0
378	1	....	1	....	....	....
By-law No. 48	1	....	1	....	....	....
349C	2	1	1	....	....	....
	674	166	311	161	36	2,377 7 0

220. Nine notices were issued under Section 378 of the Municipal Act for the improvement of insanitary buildings. In four cases the owners complied, and the remaining five cases were pending at the close of the year.

221. As regards the three cases which were pending at the close of the previous year, the requirements of Municipality are being carried out in two cases and in the third case the building continues to be vacant.

222. Out of 338 notices issued for the removal of unsafe buildings 268 were complied with either wholly or in part. In 21 cases the structures were removed by the Municipality and 49 cases were pending at the close of the year.

223. Twenty-six buildings or parts of buildings fell down during the year. In 23 cases no injury was done and in the remaining 3 cases 4 persons were injured.

224. Action was taken under Section 349 of the Municipal Act for the summary removal of 112 inflammable and insanitary huts. 83 of these were removed and 29 cases were pending at the close of the year.

225. Applications were made to the Standing Committee for the removal of unauthorized works in 7 cases. Permission was granted in four cases. In accordance with such permission the work was pulled down in one case. The remaining six cases were pending at the close of the year.

DISPOSAL OF TOWN SWEEPINGS.

226. The additional area reclaimed during the year was about 11 acres, bringing the total to 176 acres, leaving a balance of 647 acres to be reclaimed.

227. The right of cultivating the reclaimed land was sold for Rs. 5,000 against Rs. 5,500 realized in the previous year and the right of fishing in the Khajan land at Rs. 450 against Rs. 475 in the previous year.

228. A fire took place in the kutchra reclamation on 17th May 1915. There was no railway accident.

229. Only one kutchra train was run throughout the year.

230. One thousand half round teak wood sleepers were purchased for the shift siding at a cost of Rs. 6,125. 106 covers for kutchra refuse wagons and 6 tarpaulins for the drain wagons were prepared during the year at a cost of Rs. 2,207-7-1.

231. There was no epidemic during the year and there were only three deaths in the staff consisting of about 250 men.

232. The attendance at the free school conducted by the Depressed Classes Mission for the last 9 years was throughout satisfactory.

PLAGUE MEASURES.

233. Latrines, nahanis and water connections at the several Private Health Camps at Dadar and Matunga were provided by the Municipality.

234. The following camps were erected on Municipal ground and provided with latrines, water-supply and lighting arrangements at Municipal expense :—

		No. of Rooms.
1.	Babula Tank	40
2.	Gilder Tank	50
3.	Mahim Garden	50
	Total number of rooms ...	140

235. The total cost of erecting temporary bamboo matting huts amounted to Rs. 2,800.

236. The health camps which existed at the undermentioned places in previous years were maintained at Municipal expense during the year :—

On Municipal Land—

		No. of Rooms.
1.	Northbrook Garden	46
2.	Mahim Station	30
3.	Arthur Road	72
4.	At the junction of Arthur Road and DeLisle Road ...	100

On Government Land at—

	2nd Koli Lane, Colaba	20
	Total number of rooms ...	268

237. The total cost of maintaining these camps amounted to Rs. 2,029.

MISCELLANEOUS WORKS.

1. Love Grove Sewerage Outfall Works.

238. These works were continued throughout the year.

239. The total length of outfall laid up to the end of the year was 1,225 feet. After the removal of the main rock barrier which is a work of considerable difficulty, an additional 250 feet is expected to be laid before the monsoon of 1916-17.

240. A walking gantry which was an important part of the machinery for the outfall works was lost owing to the ship carrying it having been sunk in November 1915.

241. As it appeared impracticable to replace the gantry within reasonable time, it was deemed advisable to carry on the work by means of a crane. Enquiries for a suitable Titan crane were made both in India and in England, but without any definite result upto the close of the year.

242. As no appreciable progress was possible with the works without either a gantry or a crane, and as there appeared no immediate likelihood of the latter being procurable, and as the monsoon was approaching in which little work could be done, three months' notices were given under their agreements to the Resident Engineer, Mr. J. R. Blacker and the four divers engaged on the works. Mr. Melville, Assistant Engineer, and a small staff were retained to look after the works in the monsoon and to carry out any temporary works that may be required to admit of the new outfall being used during the next fair season without interruption to the progress of the main outfall works.

243. The total expenditure incurred on the works up to the end of the year amounted to Rs. 11,63,926-7-2.

2. Revision of Laughton's Survey Maps.

244. The staff on this work which was commenced in 1905 was continued throughout the year. It was chiefly engaged in surveys in connection with new schemes.

3. Revision of Set-back Lines.

245. This work, which was commenced in June 1913, was continued during the year.

246. The area comprised between Carnac Road on the North and Sandhurst Road on the South and Dongri Street on the East, and Girgaum Road on the West was surveyed, and plans were submitted to the Commissioner showing the areas within the set-back lines required to be acquired. An estimate was submitted of the saving in expenditure likely to be effected by following the proposals.

247. Proposals were made for the changing of the regular lines of the following streets:—

> Nesbit Road, Mint Road, Custom House Road, Mahim Causeway from Mori Road to Bandra Bridge, diversion of Gollanji Hill Road from Sewree Cemetery to the proposed diversion of Sewree Cross Road, Kalbadevi Road between Agiary Street and Kika Street, Walkeshwar Road from Siri Road to Ridge Road (sanctioned), junction of Foras Road and Lamington Road, junction of Falkland Road and Trimbak Parshuram Street, Dockyard Road and Reay Road, Arthur Road from Lamington Road to the Railway Level Crossing (for the Arthur Road Overbridge).

248. A large scale plan of DeLisle Road has been prepared and the approved regular lines laid down thereon.

249. Large scale plans of the development lines of Mahim district are under preparation.

4. Floor Area of Tenements.

250. In March 1914, a new post of a surveyor at Rs. 60 + 25 C.A. was created as a temporary measure for maintaining a register of the class and floor area of tenements in new and altered buildings in the City. Since 1916-17, this post has been made a permanent one in view of the importance and utility of the statistics collected. The total number of buildings surveyed has been 2,243 of which 1,227 were surveyed during the past year as shown in the following statement :—

Statement showing the increase or decrease in the class and floor area of tenements in new and altered buildings completed in the year 1915-16 :—

Ward.	DESCRIPTION.	Shops.		Godowns.		Residences.								Total.			
						One-room Tenement.		Two-rooms Tenement.		Larger Tenement.		Servants' Quarters.					
		No.	Floor area.	No.	Floor area.	No.	Floor area.	No.	Floor area.	No.	Floor area.	No.	Floor area.	Year 1915-16.		Year 1914-15.	
			sq. yd.		sq. yd.		sq. yd.		sq. yd.		sq. yd.		sq. yd.				
A	Total floor area of buildings "after" they are altered or newly built	9	393	55	18,844	1	20	14	307	42	976	8	101	129	20,641	219	17,935
	Do. do. "before" do. do.	4	203	24	5,825	...	...	16	356	38	821	1	8	83	7,213	209	11,757
	Total increase or decrease in floor area of buildings	5	190	31	13,019	1	20	—2	—49	4	155	7	93	46	13,428	10	6,178
								Decrease.									
B	Total floor area of buildings "after" they are altered or newly built	7	249	11	931	...	...	6	140	29	473	156	2,669	209	4,462	153	4,071
	Do. do. "before" do. do.	7	249	11	931	13	65	2	24	29	458	...	...	62	1,727	114	2,572
	Total increase or decrease in floor area of buildings	...	...	...	...	—13	—65	4	116	...	15	156	2,669	147	2,735	39	1,499
						Decrease.											
C	Total floor area of buildings "after" they are altered or newly built	94	1,966	68	3,448	2	34	60	1,182	778	14,322	2	23	1,004	20,975	565	11,254
	Do. do. "before" do. do.	83	1,640	53	2,600	2	22	54	1,123	651	11,181	...	...	843	16,566	431	9,025
	Total increase in floor area of buildings	11	326	15	848	...	12	6	59	127	3,141	2	23	161	4,409	134	2,229
D	Total floor area of buildings "after" they are altered or newly built	75	1,695	22	893	103	1,378	360	4,728	1,680	44,927	101	1,401	2,341	55,017	1,334	40,043
	Do. do. "before" do. do.	27	689	8	784	64	773	91	1,196	634	13,679	29	359	853	17,480	509	11,533
	Total increase in floor area of buildings	48	1,006	14	109	39	600	269	3,532	1,046	31,248	72	1,042	1,488	37,537	1,325	28,510
E	Total floor area of buildings "after" they are altered or newly built	54	1,681	17	6,412	128	1,547	28	511	464	7,935	34	524	725	13,610	1,084	23,764
	Do. do. "before" do. do.	31	922	8	894	121	1,706	25	347	270	4,362	10	161	465	8,392	327	10,380
	Total increase or decrease in floor area of buildings	23	759	9	5,518	7	—159	3	164	194	3,573	24	363	260	10,218	757	13,384
							Decrease.										
F	Total floor area of buildings "after" they are altered or newly built	85	2,091	36	12,805	201	3,054	34	440	239	4,544	8	113	603	23,047	58	1,123
	Do. do. "before" do. do.	16	725	15	7,871	33	392	...	...	92	2,131	...	...	156	11,119	7	120
	Total increase in floor area of buildings	69	1,366	21	4,934	168	2,662	34	440	147	2,413	8	113	447	11,928	51	1,003

Ward.	DESCRIPTION.	Shops.		Godowns.		Residences.								Total.			
						One-room Tenement.		Two-rooms Tenement.		Larger Tenement.		Servants' Quarters.					
		No.	Floor area.	No.	Floor area.	No.	Floor area.	No.	Floor area.	No.	Floor area.	No.	Floor area.	Year 1915-16.		Year 1914-15.	
			sq. yd.		sq. yd.		sq. yd.		sq. yd.		sq. yd.		sq. yd.				
G	Total floor area of buildings "after" they are altered or newly built	99	1,852	38	12,818	757	9,495	92	1,285	678	12,276	53	686	1,712	38,412	563	13,949
	Do. do. "before" do. do.	33	587	17	6,948	188	2,489	14	208	263	5,280	5	70	520	15,582	104	5,346
	Total increase in floor area in buildings	66	1,265	16	5,870	569	7,006	78	1,077	415	6,996	48	616	1,192	22,830	459	8,603
A to G	Total floor area of buildings "after" they are altered or newly built	423	9,927	242	56,151	1,192	15,523	594	8,593	3,910	85,453	362	5,517	6,723	181,164	4,476	112,139
	Do. do. "before" do. do.	201	5,015	136	25,853	421	5,447	202	3,354	1,977	37,912	45	598	2,982	78,079	1,701	50,733
	Grand total showing the increase in floor area of buildings	222	4,912	106	30,298	771	10,076	392	5,239	1,933	47,541	317	4,919	3,741	103,085	2,775	61,406

A to G Miscellaneous increase in floor area in all Wards :—

	Room No.	Floor area. Square yards.
Public Buildings, Offices, Schools, Printing Presses, Clubs, &c. ...	54	3,210
Motor Garages, Coach Houses and Stables	46	3,039
Milch-cattle Stables and Bullock Stables	23	7,817
Mill-premises, Factories, Workshops, Tanneries, &c.	71	26,975
Temples, Churches, Mosques, Durgahs, &c.	3	113
Sheds (for shops, godowns and human habitation)	46	4,531
Temporary Sheds...	25	785
Total ...	267	46,458

5. Government Triangulation Survey.

251. The topographical survey of the Island was continued by the Government Surveyors during the year.

252. Every assistance was rendered to the Survey Party by this office in connection with the surveying operations.

253. For the levelling operations carried on by the Survey Department a sufficient number of bench marks had been constructed by this Department for the control of the large scale survey of the Island. The total number of bench marks constructed was 155, out of which six were embedded bench marks fixed in unfrequented places such as cemeteries and the towers of silence, to serve as standards of reference and 149 were inscribed bench marks.

254. The heights of these bench marks above mean sea level were fixed by the Government Survey Department and have been embodied in a pamphlet known as "Levelling of Precision in India."

6. Revision of the Municipal Properties List.

255. The work consists of investigating the titles of properties, the dates of their acquisition or construction, the remeasuring of their areas, the ascertaining of their original and present values and the preparation of relative plans. A record of the information thus collected is kept, and the plans of the properties are drawn and preserved in a separate volume.

256. The year under report was mainly occupied in comparing the work already done with the Revenue Survey maps which are being prepared by the Government City Survey Department.

7. Hanging Gardens at Malabar Hill.

257. The laying out of the eastern slopes of Malabar Hill as a terraced garden was vigorously pushed forward, and it has already become a favourite place of public resort. The expenditure incurred up to the end of the year, including a 4" water main, was Rs. 14,168-5-0.

Schemes.

258. The Corporation have sanctioned the schemes for the acquisition of land with frontages for the construction of—

(*a*) Dadar-Kumbharwada Road,

(*b*) New Road from Sewri to Parel Tank Road,

(*c*) Widening of Sonapoor Lane,

(*d*) A through 60 ft. road from Worli Channel to Mahim Bazar Road passing along Purbhadevi Road, and

(*e*) for land at Worli Hill.

259. The works mentioned in (*a*), (*b*) and (*c*) cannot be taken in hand owing to want of funds, but those mentioned in (*d*) and (*e*) are under progress.

260. Estimates have been submitted to the Corporation for the following schemes which are under consideration :—

(1) Improvement of Church Gate Street, Tamarind Lane and Armenian Lane.

(2) Extension of Lady Hardinge Road towards the sea.

GENERAL.

261. The following important subjects were reported on during the year :—

(1) Experimental street lighting.

(2) Proposal to appoint an Assistant Engineer for the charge of Roads and Bridges.

(3) Amendment of Building By-laws.

(4) Amendment of certain Building Regulations.

(5) Method of valuation of real property.

BILLS, VOUCHERS, &c., RECEIVED AND PASSED.

262. Comparative statement of the number of bills, vouchers, &c., received, examined and passed during the five years from 1911-12 to 1915-16 :—

Description.	1911-12.	1912-13.	1913-14.	1914-15.	1915-16.
Bills for Supplies, Works, &c.	20,821	21,631	22,126	23,656	18,833
Departmental Works Bills	3,691	3,310	3,595	3,077	2,879
Private Works Bills	2,469	2,687	3,028	3,023	3,437
Total ...	26,981	27,628	28,749	30,356	25,149

NOTICES, &c., ISSUED.

263. Comparative statement of the number of notices, &c., issued under the various sections of the Municipal Act during the five years from 1911-12 to 1915-16 :—

Section.	Description.	1911-12.	1912-13.	1913-14.	1914-15.	1915-16.
	Streets and Buildings.					
231	To provide rain-water eaves, gutters and down-take pipes	1,018	487	245	157	135
247	To provide water-closets, privies or urinals ...	1	...	...	...	...
299	Intimation to take possession of land outside building for street improvements...	109	158	92	196	104
305	To level, metal or pave, drain and light private streets	103	42	118	89	66
308	To remove new projections	1,290	869	649	481	578
308-309	To remove new projections as well as old ones ...	45	15	3	1	...
311	To remove or alter door, or gate, bar or window opening upon a street	12	11	14	7	5
	Carried over ...	2,578	1,582	1,121	875	888

Section No.	Description.	1911-12.	1912-13.	1913-14.	1914-15.	1915-16.
	Streets and Buildings—*continued.*					
	Brought forward ...	2,578	1,582	1,121	875	888
313-B	To remove any board or shelf within a height of 12 feet from the surface of the street	20	5	4	9	1
329	To repair, project or enclose wells or dangerous places...	21	12	11	4	8
349	To remove inflammable materials in external walls and roof covering	248	186	190	141	130
351	To remove, alter or pull down structures erected without Municipal approval or to submit plans for the same	33	29	37	38	21
353	To alter buildings erected or to amend works done contrary to the provisions of the Municipal Act or Building Bye-laws	343	380	278	291	243
354	To pull down ruinous houses	274	523	450	446	344
354 A	To remove persons directing works unlawfully carried on	82	264	128	159	211
380	Removing or altering insanitary huts or sheds ...	602	349	271	26	2
388	To cut and trim trees, shrubs and hedges... ...	3	5	2	8	...
488	Intimation of intention to enter houses after 24 hours' notice	1,668	1,163	797	576	497
351 (2)	Intimation of intention to enter houses after 48 hours' notice...	24	10	2	8	3
298 (2)	Intimation of intention to take possession of land occupied by buildings	3	9	3	4	2
Bye-law 48	Infringement of the provisions of the Building Bye-laws	3	1	...	...	3
Section I of Government Notification No. P-228 of 10th February 1897.	To prohibit further use of building as a dwelling..	7	...	20	...	...
315	To remove projections made before Section 312 came into force	...	...	...	7	...
373	To improve insanitary buildings	...	...	...	6	9
378 (2)	To declare unimproved buildings unfit for human habitation	...	...	...	6	1
	Total ...	5,909	4,518	3,814	2,604	2,368
	Drainage.					
222	For laying Municipal drains through or under lands belonging to private parties	2	11	1	1	1
230	To carry drains through land belonging to other persons	10	8	7	14	33
231	To drain undrained premises within a hundred feet of a Municipal drain	788	701	742	857	762
232	To drain undrained premises not within a hundred feet of a Municipal drain	267	51	20	12	9
238	To declare joint ownership of a drain	5	2	8	8	33
243	To raise vent-pipes on the drain	14	19	10	32	27
244	To affix shafts or pipes for ventilation of drains, &c.	10	31	45	25	20
257	To renew, repair, &c., drainage of houses	1,130	975	1,210	1,642	1,376
258	To prohibit contraventions generally of the provisions of Chapter IX of the Municipal Act ...	1	...	...	2	...
...	Drainage of waste water from bleaching and dyeing works	37	...	...	...	...
260	To execute certain works without allowing option to persons concerned of executing the same ...	...	...	...	12	...
	Total ...	2,264	1,798	2,048	2,605	2,261

SUMMARY.

Departments.	1911-12.	1912-13.	1913-14.	1914-15.	1915-16.
Streets and Buildings	5,909	4,518	3,814	2,604	2,368
Drainage	2,264	1,798	2,043	2,605	2,261
Total ...	8,173	6,316	5,857	5,209	4,624

LETTERS, &c., RECEIVED AND DESPATCHED.

264. Comparative statement of the number of letters, references to Inspectors, &c., received and despatched during the five years from 1911-12 to 1915-16 :—

Departments.		1911-12.	1912-13.	1913-14.	1914-15.	1915-16.
General and Streets and Buildings Branches..	Inward ...	178,121	164,472	173,275	154,189	100,915*
	Outward...	180,169	169,458	178,873	151,277	99,125*
Drainage Branch	Inward ...	54,798	54,119	61,398	62,012	63,654
	Outward...	35,842	36,113	38,936	39,501	38,713
	Total ...	448,930	424,162	452,482	406,929	302,107

* The reduction is due to the registration of formal and unimportant letters, &c., having been discontinued.

265. The following is a summary of clerical work done by the different Branches of the Department during the year :—

Consecutive No.	Description of Work.	General and Street and Buildings Branches.	Mechanical Branch.	Drainage Branch.	Total.
1	Letters, &c., received, including replies to references to Inspectors, &c.	100,915	6,201	63,654	170,770
2	Letters, &c., despatched, including references to Inspectors for report	99,125	6,503	38,413	144,041
3	Notices issued	2,363	.....	2,261	4,624
4	Summonses issued	674	.....	925	1,599
5	Contracts for annual and other supplies and for the construction of various works executed	50	.....	5	55
6	Leases of various rights sold	22	.....	.....	22
7	Vouchers received and passed	8,216	1,229	9,388	18,833
8	References made to Inspectors for certificates on vouchers...	3,207	.....	4,515	7,722
9	Reports and certificates received from the Inspectors, &c.	3,202	.....	4,515	7,717
10	Departmental and private works bills prepared or received, checked and passed	5,212	1,327	777	7,316
11	Workshops balance sheets prepared and forwarded ..	.....	12	.....	12
12	Requisitions prepared or received and forwarded ...	281	8,532	2,714	11,527
13	Measurement slips for metal, sand, rubble, &c., received and checked	835	.....	.....	835
14	Morning and material reports, diaries, &c., prepared or received and checked	5,366	.....	... ...	5,366
15	Muster Rolls received and checked	642	.....	.....	642
16	Statements of wages, refund certificates prepared or received and passed	272	.....	... ...	272

Consecutive No.	Description of Work.	General and Streets and Buildings Branches.	Mechanical Branch.	Drainage Branch.	Total.
17	Unclaimed wages, refund certificates prepared or received and passed	1,318	... ..	.....	1,318
18	Work abstracts for road repairs and maintenance ...	84	.....	.....	84
19	Work abstracts for road watering received and checked	84	.....	.. ...	84
20	Permits issued for projecting verandahs, balconies, rewas, weather-frames, &c.	63	.....	.....	63
21	Permits issued for erection of scaffolding	549	.....	.....	549
22	Permits issued for opening roads	526	.....	.....	526
23	Permits issued for temporary occupation of public streets on marriage and other ceremonies	643	.....	.....	643
24	Advice notes for sale of tender forms, rights of cutting grass, hire of steam-rollers, carts, ground-rent, sale of building forms under Sections 337 and 342, supplying copies of office records, &c., prepared and forwarded to the Chief Accountant	4,187	.....	100	4,287
25	Licenses issued to Plumbers	134	.....	.. ...	134
26	Licenses issued to Surveyors	62	.....	.....	62
27	Authorities issued to Plumbers for opening roads under tram lines	.. ...	.....	.....	.....
28	Orders issued for adding ground	27	.....	.....	27
29	Permits for building or rebuilding houses granted either conditionally or unconditionally	3,461	.....	.....	3,461
30	Claims for compensation for lands, &c., taken up for street improvement passed	94	.....	.....	94
31	Number of road slips prepared and checked ...	76,995	.....	.....	76,995

I have the honour to be,

Sir,

Your most obedient servant,

JAMES W. MACKISON, B.Sc., M.Inst. C.E.,

Executive Engineer.

WATER WORKS.

REPORT OF THE HYDRAULIC ENGINEER.

Tansa Lake.

The total rainfall for the year measured near the outlet from the lake was 92·08 inches or 4 per cent. below the average for the preceding five years, the rainfall for the preceding five years being :—

97·20	inches in	1910.
69·23	„	1911.
88·26	„	1912.
83·26	„	1913.
132·80	„	1914.

Rain fell on 87 different days and exceeded 9 inches per day on 2 occasions, 7 to 8 inches per day on 2 occasions and on 20 days the rainfall ranged from 1 to 4 inches.

The lake commenced to overflow on 6th August, when the rainfall amounted to 59·53 inches and continued to overflow until 24th October. The total quantity of water that passed over the waste weir was 23,013 million gallons.

The quantity of water delivered into the duct from the lake during the year was 10,719 million gallons, of which 8,128 million gallons were received in the City, the balance of 2,591 million gallons being partly the discharge into the Vehar Lake and partly losses due to evaporation, overflow from syphon head and leakage along the duct.

The quantity of water lost from the lake through supply, evaporation, leakage and absorption between 1st April 1915 and 31st May 1916 was 2,488 million gallons and between 1st November 1915 and 31st March 1916 was 7,720 million gallons, making a total loss of 10,208 million gallons for 213 days or an average of 48 million gallons per day.

The loss of water by evaporation from the lake averaged during the dry months 0·24′ per day equivalent to 20 million gallons per day, the observed monthly evaporation being as follows :—

April	1915	...	8·7 inches.
May	„	...	8·2 „
November	„	...	4·6 „
December	„	...	6·1 „
January	1916	...	6·6 „
February	„	...	6·8 „
March	„	...	10·0 „

The lowest depth to which the water in the lake was drawn was 394·40 feet above T.H.D., leaving 14·40 feet or 9,557 million gallons available for consumption above the level of the lowest outlet.

The additional supply received from Tansa since the completion of the work of duplicating the syphons in May 1915 caused an increase in the leakage along the duct owing to the increased depth of the water. The floor of the duct in several places is in very bad need of repair and the walls of the duct in such places have spread causing extensive leakage. At mile 41—4,984 feet on 25th November 1915 leakage occurred of above five million gallons per day through a fracture 90 feet in length, undermining the foundations and imperilling the safety of the duct. Temporary measures were taken immediately to avert a catastrophy and reduce the leakage, and permanent repairs are now in hand.

Extensive repairs are also in progress at mile 40-2103 feet where a leakage of 3,80,000 gallons per day occurred.

After effecting temporary repairs, the total leakage along the duct between Tansa and Ghatkoper as measured at the close of the year amounted to 2,587,000 gallons per day.

Repairs to the duct are both difficult, extensive, and take a long time, as in the absence of a terminal reservoir they have to be made without shutting down the flow of water to the city.

The following are the results of analysis made at different periods of the year :—

Date of Analysis.	Grains per gallon.		Parts per million.		Nitrites.	Remarks.
	Total solids.	Chlorine.	Free Ammonia.	Albd. Ammonia.		
April 1915	8·0	0·7	*Nil.*	0·054	*Nil.*	No smell, clear water containing many brown particles. vegetable matter and clay.
July ,, ...	7·0	0·7	*Nil.*	0·076	*Nil.*	
October ,, ...	9·0	0·9	*Nil.*	0·114	*Nil.*	
January 1916	9·0	0·8	0·016	0·076	*Nil.*	

Vehar Lake.

The total rainfall for the year was 91·60 inches or 12½ per cent. above the average of the preceding five years, the rainfall for the preceding five years being—

77·50 inches in 1910.
60·27 .. ,, 1911.
69·55 .. ,, 1912.
90·47 ,, .. 1913.
108·73 ,, ,, 1914.

Rain fell on 86 different days, and exceeded 5 inches per day on two occasions, 7 inches on one occasion, and on 19 days the rainfall varied from 1 to 4 inches: the heaviest rainfall during the year was on 29th June, when 8·72 inches was recorded.

The Lake did not overflow during the year, the highest level attained being 256·65 feet above T.H.D. or 7·85 feet below the waste weir and 26·15 feet above the lowest outlet.

The total quantity of water received in the City during the year from the lake was 4,710 million gallons, or an average of 13 million gallons per day.

The lowest depth to which the water in the lake was drawn before the break of the monsoon of 1915 was 247·58 feet above T.H.D., leaving an available depth in the lake of 27·08 feet or 3,685 million gallons for further supply.

The following are the results of analysis made at different periods of the year :—

Date of Analysis.	Grains per gallon.		Parts per million.		Nitrites.	Remarks.
	Total solids.	Chlorine.	Free Ammonia.	Albd. Ammonia.		
April 1915	8·0	0·7	*Nil.*	0·114	*Nil.*	No smell, clear water, many brown particles floating, considerable vegetable matter and clay.
July ,, ...	7·0	1·0	*Nil.*	0·146	*Nil.*	
October ,, ...	7·0	1·0	*Nil.*	0·13	*Nil.*	
January 1916	9·0	0·8	0·016	0·136	*Nil.*	

Tulsi Lake.

The total rainfall for the year at Tulsi was 85·46 inches or 4 per cent. below the average for the preceding five years, the rainfall for the preceding five years being :—

84·36 inches in 1910.
70·35 „ 1911.
77·25 „ 1912.
94·97 „ 1913.
116·94 „ 1914.

Rain fell on 80 different days and exceeded 8 inches per day on one occasion, 6 to 7 inches on two occasions and on 20 days it ranged from 1 to 4 inches per day.

The Lake did not overflow during the year, the highest level attained being 455·60 feet above T.H.D. or 0·90 feet below the waste weir and 57·85 feet above the lowest outlet.

The total quantity of water lost from the lake by supply, evaporation, leakage and absorption, between 1st April to 31st May was 311 million gallons and between 1st November to 31st March was 891 million gallons, making a total of 1,202 million gallons for 213 days or an average of 5¾ million gallons per day.

The total quantity of water received in the City was 1,251 million gallons or an average of 3·4 million gallons per day.

The lowest level to which the water in the lake was drawn before the break of the monsoon of 1915 was 436·03 feet above T. H. D., leaving 36·67 feet or 812 million gallons in the lake for further supply.

The following are the results of Analysis made at different periods of the year :—

Date of Analysis.	Grains per gallon.		Parts per million.		Nitrites.	Remarks.
	Total solids.	Chlorine.	Free Ammonia.	Albd. Ammonia.		
April 1915	9·0	0·8	*Nil.*	0·10	*Nil.*	No smell, somewhat hazy liquid.
July „	7·0	1·0	*Nil.*	0·13	*Nil.*	No smell, clear.
October „	8·0	1·0	*Nil.*	0·14	*Nil.*	Do.
January 1916	9·0	0·8	0·016	0·16	*Nil.*	No smell, clear. All samples containing vegetable matter and clay.
						Samples for April and October contained some fleas.

DISTRIBUTING MAINS.

Works in connection with the renewing and enlarging existing and laying additional water service mains were continued during the year. The following table shows the sizes and lengths of mains laid during the year in addition to the large mains laid in connection with the Tansa Works:—

Ward.	Locality.	Size of old main.	Size of new main.	Length of new main.	Remarks.
				Feet.	
D	Charni Road	...	9"	200	
F & G	Currey Road Overbridge ...	...	9"	846	
D	Clerk Road	...	8"	700	
F	Dadar Culvert	...	9"	200	
B	Naoroji Hill Road	...	6"	120	
B	Sandhurst Road (Dongri St. to Chinch Bunder Road).	...	6"	1,268	
D	Forjett Street	...	6"	400	
E	Mahatarpakhadi Road ...	...	6"	900	
F	Kalachowki Road	3"	6"	249	
C	Champawadi Cross Lane ...	...	5"	337	
C & D	Sandhurst Road	...	5"	200	
D	Gowalia Tank Reclamation...	...	5"	740	
D	Khotachiwadi	3"	5"	670	
D	Foras Road (Lamington Road to Grant Road Station).	...	5"	880	
D	Garden on East slope of Malabar Hill.	...	4"	1,600	
F & G	Sion Road Overbridge ...	...	4"	940	
C	New Hanuman Lane ...	...	3"	130	
	Total ...			10,380	

RESERVOIRS AND FILTERS, MALABAR HILL.

The following alterations and improvements have been made at the Malabar Hill Reservoir during the year:—

The old outlet well has been remodelled and converted into a central Control House to accommodate all the inlet and outlet valves from both reservoirs. All the old mains to and from the reservoirs have been directly connected to this Control House together with the additional inlet and outlet mains in connection with the Tansa scheme. A concrete floor has been laid over the top of the well to form a platform from which to work the valves, and an office for the Inspector-in-charge of the Reservoir. All gauges, level recorders, telephones, fire alarms, &c., have been suitably arranged in this office from whence the supply to nearly half the City can be controlled.

The old inlet well has been connected to No. 2 Reservoir, thus increasing the storage capacity of the reservoir.

The masonry tower supporting the elevated cast iron storage tank for supplying the high level districts has been completed and taken into use.

A pavilion has been built over the new tunnel under Gibbs Road under which accommodation can be provided for additional quarters for sluice men if required at any future time.

All the filter beds have been rendered mosquito-proof for the prevention of malaria and further mosquito-proofing works on the reservoirs are in progress.

BHANDARWADA RESERVOIR.

The operations of the G. I. P. Railway Co. in connection with the construction of an elevated railway through Wari Bunder necessitated alterations being made to No. 1 Reservoir. The work was taken in hand departmentally and completed during the year; the alteration comprising the reconstruction of a portion of the outer walls at the south-east corner of the reservoir so as to bring them sufficiently clear of the excavation made by the Railway Co. on the slope of the Hill. This reservoir showed signs of the leakage during the year, which was investigated and traced to one of the cushion chambers under the outlet from the filters. The necessary repairs were carried out and the reservoir is now water-tight.

The work of improvement to the filter outlets referred in the report for 1914-15 has been taken in hand departmentally and is nearing completion.

MAINTENANCE WORKS.

There were 68 bursts during the year as against 64 during 1914-15, 49 during 1913-14 and 57 during 1912-13.

1	...	48″ main.
3	...	32″ „
1	...	18″ „
1	...	12″ „
1	...	9″ „
1	...	8″ „
3	...	7″ „
7	...	6″ „
1	...	5″ „
25	...	4″ „
24	...	3″ „

The number of the connections made during the year was 514, including 12 branch connections. Connections cut off for various reasons numbered 253, of which 103 were restored. The net increase therefore in the number of connections is 364. The total number of connections now stands at 25,270.

The total number of Municipal meters at present in use is 2,590.

The number of disconnection orders submitted to the Standing Committee from time to time during the year was 374 against 227 last year. All these were sanctioned and have been dealt with as follows :—

(1) Disconnections not enforced owing to parties having complied with requirements	121
(2) Disconnections enforced	253
(3) Connections restored on compliance with Municipal requirements	103
(4) Connections remained unrestored	150

Waste Prevention.

The Waste Prevention Branch of the Water Department continued its operations throughout the year with the result that 9,860 underground and 21,585 aboveground defects were detected and repaired.

The following comparative statement shows the total length of the water mains examined during the year under report and the preceding five years:—

Period.	Excluding second and subsequent tests. lin. ft.	Including second and subsequent tests. lin. ft.
From 1st April 1910 to 31st March 1911	23,545	16,10,531
From 1st April 1911 to 31st March 1912	50,226	18,33,428
From 1st April 1912 to 31st March 1913	35,965	24,86,482
From 1st April 1913 to 31st March 1914	45,317	23,56,067
From 1st April 1914 to 31st March 1915	11,356	24,64,100
From 1st April 1915 to 31st March 1916	62,669	23,82,793

The total length of mains of all sizes sounded during the year under report was 127 miles and 550 feet.

The number of the defect notices issued during the year was 4,386 against—

3,617 issued during the year 1910-11
4,594 „ „ „ 1911-12
5,031 „ „ „ 1912-13
3,968 „ „ „ 1913-14
4,519 „ „ „ 1914-15

Particulars of defects detected and remedied, the number of diagrams taken, and the quantity of water found running to waste from 1st April 1915 to 31st March 1916 are given in the following statement marked A:—

STATEMENT **A.**

Statement of Defects found on Mains and Service Pipes during the year 1916.

No. of Diagrams taken.	Total leakage discovered in Gallons per hour.	DEFECTS.																			Remarks
		Under Ground.									Above Ground.										
		Mains.		Sluice valves.	Hydrants.	Service pipes.	Stop taps.	Disconnected service pipes.		Miscellaneous Holes in Mains, etc.	Bib Taps.		Service pipes.		Ball Valves and Tanks.			Stop Taps leaking.	Meter Coupling Flanges, Holes, etc.	Miscellaneous.	
		Bursts.	Joints.					Ferrule leak.	Pipe leak.		Out of order.	Left open.	Leaking.	Without Tap.	B. V. out of order.	Tanks without B. Vs.	Tanks leaking.				
1915.																					
April ... 97	39,275	1	24	136	352	36	10	3	3	3	980	13	191	3	56	4	6	142	17	83	
May ... 112	44,265	5	60	154	406	70	22	4	1	...	1,050	14	175	4	83	9	13	136	26	108	
June ... 115	70,640	6	76	152	354	91	25	6	2	...	1,173	31	143	3	38	2	6	126	22	131	
July ... 126	52,825	11	81	193	319	116	11	6	1	3	1,597	10	209	10	62	3	2	147	23	33	
August ... 120	4,92,950	10	78	229	482	134	16	9	1	...	1,690	23	151	6	53	6	14	145	22	40	
September ... 118	1,58,025	7	45	164	556	117	8	10	1	1	1,258	10	162	13	82	1	8	183	16	27	
October ... 120	25,750	2	73	219	589	113	8	4	2	13	1,327	14	149	5	72	5	3	141	9	23	
November ... 130	49,600	4	70	168	439	89	16	2	...	4	1,456	12	136	10	51	1	8	172	14	20	
December ... 103	3,90,775	2	83	178	431	106	32	9	2	9	1,317	19	130	4	82	...	1	136	15	29	
1916.																					
January ... 79	1,31,160	4	96	169	431	125	22	12	8	1	1,170	15	151	5	89	3	9	168	18	36	
February ... 88	1,54,205	13	83	179	401	128	15	3	1	1	1,465	49	117	9	91	3	10	112	7	51	
March ... 114	3,87,250	3	89	180	464	125	16	7	1	5	1,480	22	119	3	66	2	...	116	7	38	
Total 1,316 ...	19,96,720	68	858	2,121	5,224	1,250	201	75	33	40	15,963	242	1,833	75	825	39	80	1,724	196	608	
Grand Total 1,316.	19,96,720	9,860									21,585										

TANSA WORKS.

Works for increasing and improving the Water Supply to Bombay.

At the close of the year 1914-15, the following works in connection with the improvement of the water supply to Bombay, were reported to be in hand :—

(1) Raising Tansa Dam.

(2) Removal of villages from Tansa Catchment area.

(3) Duplicating syphons 1 to 8.

(4) Laying additional distributing mains in the city.

(5) Constructing a terminal reservoir at Ghatkoper.

(6) Constructing a service reservoir at Golangi Hill.

(7) Constructing a service reservoir at Sion Hill.

Works in connection with raising Tansa Dam were commenced on 18th September 1912 and completed on 18th May 1915, by the contractors Messrs. Pallonji Edulji & Son at a cost of Rs. 4,39,000.

The possibility of diverting the drainage of the village of Khardi, outside the catchment area of the Tansa Lake is under consideration.

The duplications of syphon 1 to 7 with 50" steel pipes was completed during the year 1913-14, and that of syphon No. 8 by the end of October 1915, and the inauguration of the duplicated water supply from Tansa was performed by Their Excellencies Lord and Lady Willingdon on Wednesday, the 8th December 1915; constant supply being given to the whole island in April 1916.

All the distributing mains sanctioned in connection with the Tansa Works have been laid and taken into use.

The land required for the construction of a terminal reservoir at Ghatkoper has been acquired by Government and handed over to the Municipality. The contract for excavating the foundations for the dam of the reservoir has been prepared, but owing to the present financial crisis all work in connection with this reservoir has been postponed.

The projects for the construction of service reservoir at Golangi Hill and Sion Hill are still under consideration.

Financial.

The Budget grant for the maintenance of the Water Department for the year was Rs. 3,77,212, which with the lapsed grants renewed and with the transfers and additional grants sanctioned amounted to Rs. 5,38,809-8-2. The total expenditure incurred against this sum and paid for during the year amounted to Rs. 3,85,395-2-2,* leaving an unexpended balance of Rs. 1,53,414-5-0,* a portion of which will be renewed in 1916-17 to meet the liabilities incurred during the year.

1.	Number of letters received during 1915-16	16,086
2.	Number of letters despatched during 1915-16	16,871
3.	Number of references made to the Inspectors	31,683
4.	Number of reports received from the Inspectors	39,872
5.	Number of vouchers received and passed	2,868
6.	Number of Departmental and Private Works Bills prepared and forwarded	1,638
7.	Number of references made to the Inspectors for certificates on vouchers	2,687
8.	Number of reports and certificates received from the Inspectors	2,687
9.	Number of requisitions received and forwarded	2,761
10.	Number of Notices issued in connection with defective pipes and fittings	4,651
11.	Total number of contracts executed	4
12.	Number of advices sent to the Chief Accountant	2,406

* These figures are subject to revision by the Chief Accountant.

FIRE BRIGADE.

I have the honour to submit the Annual Report on the working of the Brigade for the year 1915-16.

I was granted combined leave for 3 months and 15 days from June 6th to September 20th, 1915. During my absence the late Head Foreman Mr. R. Thompson acted as Chief Officer up to his death on August 13th, and the present Head Foreman, Mr. H. Lainton, acted for the remaining period.

By the death of Mr. Thompson who died from the effects of coal gas inhaled at a fire on board the Hospital Ship "Madras" at the Alexandra Docks on 30th July, the Brigade lost one of its most zealous and capable officers, and it is with regret that his death has to be recorded.

Calls.—The year, compared with the previous one, the heaviest on record, has been a comparatively light one, the total number of calls received being 237, resulting in 176 fires and 39 false alarms as against 280 and 29 respectively in 1914-15.

Fires.—Of the 176 fires attended 102 were extinguished by the Brigade and 74 before its arrival. The most disastrous fire of the year occurred at Sewree Bunder on April 29th, when a barge loaded with about 20,800 gallons of petrol in drums while being discharged caught fire and 5 persons lost their lives and several others received shocking injuries. In point of loss however the most serious fire curiously enough occurred in the bulk oil installation at Sewree a few yards distant, where one of the oil tanks containing 1,61,000 gallons of kerosine oil was completely destroyed.

Other large fires occurred at Pasta Lane on August 26th, and September 6th, Connaught Cross Road on October 24th, and January 12th (1916), and at Belvedere Road November 26th.

Fire Loss.—The estimated fire loss has amounted to Rs. 6,36,503, while the property at risk has been rated at Rs. 78,87,065. Of this amount Rs. 3,94,422 was covered by insurance and Rs. 2,42,081 was uninsured. Compared with the previous year the loss shows a decrease of Rs. 23,83,066 and Rs. 2,85,169 below the average of the last decade.

Water Supply.—Except for on one occasion due to an old and crusted main the water-supply has been satisfactory and the attendance of the Water Department Staff prompt. The approximate quantity of water used for extinguishing fires has amounted to 31,49,710 gallons or 14,061·2 tons, of which 23,18,960 gallons were taken from street mains and 8,30,750 gallons from sea, docks and tanks, etc.

Lives Lost.—Four persons lost their lives at fires and ten received such injuries that they subsequently succumbed. Others received minor injuries, since recovered. First Aid was rendered by the Brigade on three occasions.

Fire Alarms.—The Fire Alarm System throughout the year has worked satisfactorily. There are now 62 call points in working order and the remaining eleven, which will complete the installation, are now in hand.

Stations.—With the new station at Elphinstone Bridge Road equipped with motor appliances, the old Mazagon station was no longer required. It was therefore closed on July 1st, and the men and appliances distributed to other stations, and a fire alarm substituted. Owing to the War nothing has been done in connection with the new Fort station beyond acquiring the land from Government. Proposals for building a new station at Sewree (consequent upon the increasing risk in that locality) in place of the existing one at Chinchpokli, and the re-modelling of the Gowalia Tank station have received consideration. Now that the new Vincent Road is completed, it is hoped that the filling in of the tank at Naigaum for the new Dadar station will be taken in hand.

New Appliances.—3,400 feet of hose was purchased during the year, but owing to the Government control of the motor firms in England, the motor tender on order for the Gowalia Tank station is still undelivered. Provision has been made in the ensuing year's Budget for the year's requirements, including a small motor first aid tender to replace the hand appliances at the Mahim station.

Staff, etc.—The revision of pay to all ranks in the Brigade last year has had the effect of making the service more attractive and there is now no difficulty in obtaining more intelligent men and keeping the Brigade at full strength.

One officer was called to the colours on the outbreak of War, but unfortunately all trace of him has been lost for the last 12 months.

Several men received injuries at fires, but none proved serious. Three firemen died during the year and thirty-two men invalided, resigned or otherwise left the service.

It has not been possible to continue the "First Aid" instruction classes, due no doubt to the call upon doctors elsewhere, but they will be started again as soon as possible. Altogether about fifty men now hold efficiency certificate or have qualified.

Hydrant inspection was carried out periodically throughout the year and the Municipal Office and Market Staff were regularly drilled.

The distance covered by the motors to and from the 237 calls of fires totalled 2,712½ miles.

The Brigade turned out on four occasions to fallen buildings. Two persons were injured but no lives were lost.

The efficiency of the Brigade has been maintained.

Every assistance has again been rendered to the Brigade by the Police, Water Department, and Salvage Corps all to whom I wish to express my thanks.

I have the honour to be,
Sir,
Your most obedient servant,
T. C. GREENOP,
Chief Officer, Fire Brigade.

Budgetted strength and equipment of the Brigade :—

Strength.

1	Chief Officer.	8	First Class Tindals.
3	Clerks.	8	Second Class Tindals
1	Head Foreman.	9	Third Class Tindals.
7	Foremen.	40	First Class Firemen.
1	Mechanic.	145	Second Class Firemen.
8	Engineers.	5	Coachmen.
1	Fitter.	4	Grooms.
16	Motor Tindals (Drivers).	4	Mochies.
		1	Chauffeur.

Making a total of 262 men of all ranks.

Equipment.

5	Horse-drawn Engines.	1	Hose and ladder Truck.
4	Petrol Motor Engines.	7	Manual Engines.
4	Steam Motor Engines.	1	Hose and Store Van.
2	Petrol Motor Tenders.	1	Emergency Van.
1	Motor Turntable Ladder.	1	Brake.
17	Hose Reels.	10	Horses.
8	Tender Carts.	1	Motor Car.
10	Hand Fire Escapes.	35,000	feet of Hose, and other small appliances.

Statement showing the Distribution of Engines, etc.

Numbers.	Stations.	Petrol Motor Pump.	Motor Steamer.	Horsed Steamer.	Manuals.	Hose and Ladder Truck.	Hose Reels.	Coal Carts.	Motor Tenders.	Motor Turn Table Ladder.	Fire Escapes.	Hose Van.	Brake.	Emergency Van.	Horses.	Delivery Hose, 50 feet.	Foremen.	Motor Mechanics.	Engineers.	Fitters.	Motor Drivers.	First Class Tindals.	Second Class Tindals.	Firemen of Grade.	Coachmen.	Grooms.	Mochies.	Remarks.
1	Byculla ,,	...	...	1	4	4	...	3	3	...	...	2	1	1	1	8	210	1	1	4	1	3	5	1	39	4	3	1	
2	Haines Road	...	1	...	...	...	...	...	...	1	...	1	...	...	...	...	78	1	...	...	...	3	1	1	17	...	...	...	Escape carried on Motor Tender.
3	Gowalia Tank	...	1	...	...	...	...	1	1	...	...	2	...	...	...	...	42	1	...	...	...	1	1	1	23	...	...	1	
4	Chinchpokli	...	1	...	...	...	...	1	1	...	...	1	...	...	...	...	52	1	...	...	...	1	1	1	19	...	...	2	
5	Babula Tank	...	...	1	...	...	...	1	1	1	...	1	...	...	...	...	73	1	...	1	...	2	1	1	16	...	...	...	Escape carried on Motor Tender.
6	Fort... ...	...	...	...	1	...	...	1	...	...	...	1	...	...	...	2	37	1	...	1	...	...	1	1	12	1	1	...	
7	Colaba ...	...	1	...	...	1	...	4	1	...	...	1	...	...	...	...	62	1	...	...	...	1	1	1	16	...	...	...	
8	DeLisle Road	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	13	...	...	...	...	...	1	...	7	...	...	...	
9	Mahim ...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	13	...	...	...	...	...	1	...	7	...	...	...	
10	Dadar ...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	13	...	...	...	...	...	1	...	7	...	...	...	
	Mazagon ...	...							O	lo	se	d	1s	t	Ju	ly	19	15	.										
11	Bhuleshwar	...	...	1	...	...	...	1	...	...	...	1	...	...	...	...	41	...	...	1	...	1	1	1	6	...	...	...	
12	Mandvi ...	...	...	1	...	...	...	2	1	...	1	...	...	...	...	...	66	1	...	1	...	2	1	1	16	...	...	...	
	Total	...	4	4	5	7	1	17	8	2	1	10	1	1	1	10	700	8	1	8	1	*14	16	9	185	5	4	4	

* Two Motor Drivers sanctioned from 1-12-14 to be engaged.

MUNICIPAL FIRE BRIGADE.

Statement Summary of calls to fires (including false alarms) showing the number of times that appliances were used for attending and extinguishing fires during the year 1915-1916.

STATIONS.	No. of Fire Alarms attached.	How called.						Appliances attended.									How extinguished.								Sprinklers actuated.	REMARKS.
		By Stranger.	By Police.	By Fire Alarms.	By Exchange Telephone.	By Private Telephone.	Total.	Hose and Ladder Track.	Manuals.	Hose Reels.	Horsed Steamer.	Motor Steamers.	Motor Pumps.	Motor Tenders.	Motor Turntable Ladder.	Hand Escape.	Hose Van, etc.	Buckets.	Hand Pumps.	Chemical Extinguisher.	Chemical Engine.	Hydrants.	Steamers.	Motor Pump.	Manual.	Sand.		
Byculla ...	9	...	...	19	91	1	111	...	...	...	3	36	...	...	...	6	15	...	...	...	...	3	7	...	...	...	24	
Haines Road...	...	1	...	...	...	...	1	...	...	...	...	...	74	57	...	...	...	2	2	...	...	2	...	15	...	...	...	
Gowalia Tank.	8	4	...	9	...	...	13	...	...	13	11	...	9	...	...	20	...	3	...	...	...	3	...	2	...	1	...	
Chinchpokli ...	4	3	2	10	...	...	15	...	...	23	...	...	44	...	...	34	...	11	1	...	...	11	...	15	...	1	...	
Babula Tank...	...	...	1	...	...	...	1	...	...	...	...	97	...	86	...	...	...	...	1	4	3	3	7	...	...	1	...	
Fort	9	5	1	10	...	...	16	...	...	19	53	...	...	...	...	44	...	4	...	...	...	1	3	...	...	5	..	
Colaba ...	6	11	...	10	...	...	21	...	...	19	...	...	33	...	...	33	...	3	1	2	...	3	...	4	...	2	...	
DeLisle Road...	...	...	1	...	...	...	1	...	7	7	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
Dadar ...	...	1	...	...	...	...	1	...	4	8	...	...	...	...	...	...	...	1	...	...	...	5	...	...	...	...	...	
Mahim ...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Mazagon ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Closed 1st July 1915.
Bhuleshwar ...	12	5	4	34	...	...	43	...	...	49	...	76	...	...	...	47	...	...	1	1	...	2	3	...	...	1	...	
Mandvi ...	14	3	...	11	...	...	14	...	...	1	...	70	...	...	62	...	...	4	1	2	...	6	8	...	...	...	...	
Total ...	62	33	9	103	91	1	237	2	11	139	67	279	160	143	62	184	15	28	7	9	3	40	28	36	...	11	24	

LIST OF CAUSES OF FIRES FOR THE YEAR 1915-1916.

Causes.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Total.
Acetylene gas, coming in contact with lighted lamp	...	...	...	...	...	...	...	...	1	...	...	...	1
Candle, lighted	...	...	...	...	...	...	...	1	...	...	...	...	1
Celluloid, coming in contact with naked light	...	...	...	...	...	...	...	...	1	...	...	...	1
Chimney, overheat of	...	...	...	...	...	...	...	...	1	...	...	...	1
Dammer, boiling over	...	...	...	...	...	1	...	...	...	...	...	...	1
Defective electric circuit	2	2	1	4	1	...	1	1	...	2	...	...	14
Defective oil reservoir	1	...	...	...	...	...	...	...	...	...	...	...	1
Fat, boiling over	1	...	...	1	...	...	...	1	...	1	...	...	4
Fireplace, overheat of	...	1	...	...	...	...	...	...	...	...	...	...	1
Fire, spark from	3	1	1	3	3	...	1	2	1	1	1	2	19
Fireworks, letting off	...	...	1	...	...	...	...	2	...	...	...	...	3
Foul flue	...	...	...	...	...	...	...	...	1	...	...	...	1
Friction	1	1	...	...	1	...	...	3	...	1	1	1	9
Furnace, overheat of	...	...	...	...	...	1	...	...	...	...	...	...	1
Gas, escape of	...	...	1	...	...	...	...	...	...	...	...	...	1
Kerosine oil, explosion of	...	...	...	...	...	1	...	...	...	...	...	...	1
Kerosine oil, upset	...	...	...	...	...	...	...	1	...	...	...	1	2
Kerosine oil lamp, overheat of	...	...	...	...	...	1	1	...	...	...	...	...	2
Kitson light, overheat of	...	...	...	...	...	1	...	...	...	...	...	...	1
Light thrown down	3	2	3	2	2	...	1	4	4	5	4	3	33
Locomotive, spark from	...	...	...	...	...	...	...	...	1	...	1	...	2
Matches, children playing with	...	...	...	...	...	...	...	...	...	1	...	...	1
Naked *light*, *clothing* coming in contact with	...	...	...	...	...	...	...	...	...	1	...	...	1
Oil, boiling over	1	...	...	...	...	...	...	...	...	1	1	...	3
Oil engine, overheat of exhaust pipe	...	...	...	...	...	...	...	1	...	...	...	...	1
Oil lamp, overheat of	...	...	...	...	...	1	...	...	...	...	...	...	1
Oil lamp, upset	...	1	...	...	...	1	...	1	...	1	...	...	4
Oil, upset	1	...	...	...	...	...	...	...	...	...	...	...	1
Petrol, explosion of	1	...	...	...	...	...	...	...	...	...	...	...	1
Petrol, leakage of	...	...	...	...	...	1	...	...	...	...	...	...	1
Petrol vapour, naked light coming in contact with	...	...	...	...	1	...	...	...	2	1	...	2	6
Shipwrights at work	...	...	...	...	...	...	...	1	...	...	...	...	1
Spirit methylated, upset	...	...	...	...	...	...	...	1	...	...	...	...	1
Spirit vapour, coming in contact with lighted gas stove	...	...	...	...	...	...	1	...	...	...	...	...	1
Spontaneous ignition	1	1	...	1	...	...	...	...	...	...	...	2	5
Steam wagon, spark from	...	...	...	...	...	...	...	...	...	...	1	...	1
Stove, charcoal, upset	...	...	...	...	...	...	...	...	1	...	...	...	1
Stove, primus, explosion of	1	...	1	...	...	...	...	...	...	..	...	...	2
Stove, primus, overheat of	1	...	...	...	...	...	...	...	...	...	...	...	1
Stove, primus, upset	1	...	...	...	...	...	...	...	...	..	..	...	1
Suicide	1	1	...	...	...	...	...	...	...	...	...	...	2
Sun's rays	...	...	...	...	...	...	...	...	...	1	...	...	1
Tobacco, smoking	...	...	2	...	...	...	...	2	...	...		1	5
Unknown	1	5	2	2	3	4	4	4	...	3	2	3	33
Wheelrights forge, spark from	...	...	...	...	...	...	...	...	...	...	1	...	1
Total	20	15	12	13	11	12	9	25	13	19	12	15	176

LIST OF FIRES THROUGH WHICH PROPERTY TO THE EXTENT OF Rs. 2,000 AND UPWARDS WAS DESTROYED DURING THE YEAR 1915-16.

Date.	Locality.	Description of property destroyed.	Estimated value.
1915.			Rs.
11th April ...	Sandhurst Road	Shops	2,735
20th „ ...	Coal Bunder, Mazagaon ...	Coal stack	3,000
29th „ ...	Sewri Bunder, Sewri	Petrol barge	35,000
16th May ...	Jambulwadi West, Kalbadevi Rd.	Cloth cap dealer	33,000
21st „ ...	Jamsetji Bunder, Colaba ...	Cotton godown...	10,000
11th August ...	Foras Road	Cotton mill	10,000
26th „ ...	2nd Pasta Lane, Colaba ...	Cotton godown...	37,125
26th „ ...	Ferguson Road, Lower Parel ...	Cotton mill	6,000
6th September ...	2nd Pasta Lane, Colaba ...	Cotton godown...	40,000
15th „ ...	Sewri Point	Mineral oil tank	1,50,726
26th „ ...	Jamsetji Bunder, Colaba ...	Cotton cleaning factory ...	8,000
24th October ...	Ghorupdeo Road	Cotton press	65,000
30th „ ...	Dongri Street, Mandvi... ...	Cotton waste godown	18,000
5th November ...	Government Gate Road, Parel...	Cotton mill	5,000
5th „ ...	Agripada Cross Lane	Dwelling	6,000
6th „ ...	Connaught Cross Road, Ghorupdeo	Cotton press	24,000
7th „ ...	Cavel Lane, Dady Shet Agiary Street	Printing press	14,000
26th „ ...	Jamsetji Bunder, Colaba ...	Cotton	2,000
26th „ ...	Belvedere Road, Mazagaon ...	Oil mill	35,000
1916.			
2nd January ...	Wadala Road, Matunga ...	Grass stacks	2,000
12th „ ...	Connaught Cross Road, Ghorupdeo	Cotton press	40,150
13th „ ...	Chinchpokli Road	Charcoal godowns	6,700
16th „ ...	Delisle Road	Cotton mill	15,200
22nd „ ...	New Queen's Road	Motor car	6,000
29th „ ...	Clerk Road	Cotton mill	5,000
7th February ...	Foras Road	Cotton mill	2,000
23rd „ ...	Annesley Road, Tardeo ...	Grass godown	9,000
2nd March ...	Naigaum Road, Dadar... ...	Cotton mill	8,000
4th „ ...	Kala Chowki Road, Chinchpokli.	Cotton cleaning factory ...	4,500
6th „ ...	Tank Bunder Cross Lane, Tank Bunder	Shops, dwellings, etc.	8,510
14th „ ...	Walkeshwar Road	Motor car	2,500
25th „ ...	Lamington Road	Motor car	2,000

SUMMARY OF LIVES LOST AT FIRES DURING THE YEAR AND OF PERSONS WHO RECEIVED SUCH INJURIES THAT DEATH SUBSEQUENTLY ENSUED.

Date.	Time.	Place.	REMARKS.
14th April 1915	1-46 P.M.	4th Peerkhan Street.	Mawloo Nana Mani, aged 23 years, burned to death.
16th do.	10-1 A.M.	Borah Bazar Lane, Fort.	Monjibai, aged 25 years, severely burned on face and arms. Removed to Hospital. Since dead.
29th do.	10-54 A.M.	Sewri Bunder, Sewri.	Dhondoo Abba, aged 28 years, Mathaji Ramji, aged 38 years, Tukia Ganoo, aged 30 years, Bapoo Piraji, aged 25 years and Ithal Bagoo, aged 22 years, severely burned about their bodies. Removed to Hospital. Since dead.
20th May 1915	11-33 A.M.	Balaram Street, Grant Road.	Baimai R. Kaliyanwalla, aged 15 years, severely burned about the face and upper part of body. Removed to Hospital. Since dead.
4th June 1915	4-55 P.M.	Jakeria Musjid Street.	Vassan Vallab, aged 16 years, killed by explosion.
25th October 1915	6-28 A.M.	Fort Street, Fort	Nasarwanji Guzdar, aged about 43 years, badly burned about upper part of body. Removed to Hospital. Since dead.
5th November 1915	2-7 P.M.	Agripada Cross Lane.	Mitabai, aged about 12 months, burned to death.
16th do	5-26 P.M.	Shaik Memon Street.	Hansraj Thakward, aged 40 years, burned on hands and arms. Removed to Hospital Since dead.
4th December 1915	4-32 P.M.	Parel Tank Road	Ramchandra Ganpoo, aged 2½ months, burned to death.
11th January 1916	9-10 P.M.	Tank Bunder Road.	Hoosabai Gopal, aged 7 months, burned to death.

BRIEF DETAILS OF THE MOST SERIOUS FIRES OF THE YEAR.

Date.	Time.	Place.	Business.	Extinguished by	Damage.	Estimated loss.
1915.						Rs. a. p.
29th April.	10-54 A.M.	Sewree Bunder, Sewree.	Mineral Oil Importers.	Firemen with one Petrol Pump.	An iron barge 100 tons register severely damaged by fire and heat and about 5,200, four gallon drums of petrol (contents of barge) destroyed by fire and explosion 40 feet off bunder..	35,000 0 0
26th Aug.	2-50 A.M.	2nd Pasta Lane, Colaba.	Cotton Merchants.	Firemen with 2 Steamers and 1 Motor Pump.	A building of one floor 50 × 20 feet used as godown and contents consisting of 500 bales of cotton, severely damaged by fire and roof off, and about 500 bales in godown adjoining and communicating, slightly by heat, smoke and water	37,125 0 0
6th Sept.	4-4 A.M.	2nd Pasta Lane, Colaba.	Gunny bag and Cotton Merchant.	Firemen with 2 Motor Pumps and 1 Steamer.	A building of 2 floors 80 × 25 feet used as godown, top floor and contents consisting of gunny cloth, severely damaged by fire and roof off, lower part of building and contents, 1,500 bales of cotton slightly by fire, heat, smoke and water	40,000 0 0
15th Sept.	2-50 P.M.	Sewree Point, Sewree.	Mineral Oil Importers.	Firemen with 1 Motor Pump and 1 Steamer.	An iron tank 6,98,120 gallons capacity and contents 1,61,000 gallons of kerosine oil destroyed by fire and partly collapsed ...	1,50,726 0 0
26th Nov.	11-25 P.M.	Belvedere Road, Mazagon.	Oil Mills.	Firemen with 2 Steamers.	A corrugated iron building of one floor 80 × 40 feet used as seed crushing room and contents severely damaged by fire and fallen down, contents of godown adjoining and communicating, used as seed store slightly by heat, smoke and water	35,000 0 0
1916.						
12th Jan.	2-17 P.M.	Connaught Cross Road, Ghorupdeo	Cotton Merchants.	Firemen with 3 Steamers and 2 Motor Pumps.	A corrugated iron building of 2 floors 160 × 40 feet used as cotton press and contents comprising bales of cotton waste, severely damaged by fire, heat, smoke and water and fallen down	40,150 0 0

MONTHLY SUMMARY OF FIRES AND ANNUAL LOSSES FOR THE PERIOD 1906-1907 TO 1915-1916.

YEAR.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.	February.	March.	Total.	Estimated Loss.
1906-1907.	5	16	25	7	6	4	14	9	6	9	9	10	120	55,38,801
1907-1908.	12	10	7	4	1	6	6	13	10	11	18	4	102	33,36,274
1908-1909.	7	11	7	5	2	8	11	11	9	12	9	10	102	23,94,164
1909-1910.	9	18	8	7	6	4	9	5	7	10	17	9	109	15,05,557
1910-1911.	8	8	9	14	3	2	7	18	16	8	13	11	117	5,76,742
1911-1912.	12	8	4	7	8	12	14	7	13	11	11	17	124	23,04,703
1912-1913.	14	9	5	11	10	13	14	13	23	17	17	16	162	15,20,093
1913-1914.	14	11	11	2	10	5	14	29	29	27	35	37	224	64,75,696
1914-1915.	48	42	39	15	14	17	17	27	14	19	17	11	280	30,19,569
1915-1916.	20	15	12	13	11	12	9	25	13	19	12	15	176	6,36,503

Prosecution for malicious interference with Fire Alarms during the year 1915-16 :—

Date.	Nature of Offence.	Police Court and Magistrate.	Remarks.
15th March 1916...	Breaking the glass of Fire Alarm at Pydhoni and giving false alarm of fire.	Mazagaon Police Court, Honorary Magistrate.	Kadar Mahomed Esoof, aged 21 years, fined Rs. 2.
17th do. ...	Breaking the glass of Fire Alarm at Samuel Street and giving false alarm of fire.	.....	Kadar Mahomed Esoof arrested and certified insane and sent to Asylum by order of the Commissioner of Police.

PUBLIC GARDENS.

REPORT OF THE SUPERINTENDENT OF MUNICIPAL GARDENS RECEIVED UNDER HIS No. 201 OF 29TH APRIL 1916.

SIR,

I have the honour to submit the Annual Report on the Administration of the Municipal Gardens in my charge for the official year 1915-16.

2. The following gardens were maintained during the year under report :—

(*a*) Victoria Gardens.
(*b*) Elphinstone Circle Garden.
(*c*) Northbrook Garden.
(*d*) Dick's Tank Garden.
(*e*) Falkland Road Garden.
(*f*) Sir Cowasji Jehangir Garden at Mahim.
(*g*) Municipal Office Garden.
(*h*) Esplanade Bandstand Green.
(*i*) Flora and Wellington Fountains and the Queen's Statue.
(*j*) Chowpaty Bandstand (temporary).

3. As I have been granted privilege leave combined with furlough from 1st May 1916 to 15th April 1918 at the end of which, having completed the age of 55 years, I will have to retire on pension, this is the last annual report that I have to submit on the management of the Municipal Gardens which have been in my charge for over 23 years past. In the report on the improvement of the Victoria Gardens which I have submitted to the Commissioner in my letter No. 1279 of 23rd July 1914, in connection with the Corporation Resolution No. 4739 of 13th November 1913, I have given a short history and account of that garden and the improvements carried out therein during my tenure of office and it is not necessary therefore to say anything more about it here, and I shall leave it to the Commissioner and the Corporation to judge how far I have succeeded in carrying out the duties entrusted to me.

4. The work of relaying out of the Bazar Gate Garden (Bhátia Bág) is still being carried out by the Executive Engineer's Department. A temporary fence has been put up around the garden, the ground raised so as to slope up to the centre, the plots turfed and the paths altered and tar macadamised.

5. In the Budget estimate for 1915-16, the usual grants for the Malabar Hill Garden were omitted from the Gardens Department with the remark that "the maintenance of this garden has been entrusted to the Water Works Department," and they have therefore been in charge of the Hydraulic Engineer since the commencement of the year under report.

6. The number of visitors to the Victoria Gardens which had considerably fallen off since the commencement of the war has again been steadily increasing, the total number during the year under report being 15,44,708 against 13,40,034 in the previous year showing an increase of 2,04,674.

7. The usual difficulties about labour supply and shortage of water were felt during the greater part of the year. Temporary labour, however, was available for a short period during the time when the Bombay Mills worked short time and advantage was taken of that circumstance to entirely renovate many of the lawns which had deteriorated and of carrying out other improvements that were necessary. The water supply also slightly improved at the end of the year, after the Tansa Duplication Scheme was completed.

8. All the roads in the Gardens were repaired and kept in good condition throughout the year. A few more roads and paths were tarred during the year under report and the work will be continued in future as grants are available.

9. No grant having been provided in the year's Budget to continue the construction of surface storm-water drain the work had to be kept in abeyance.

10. The work of planting trees and shrubs was continued as usual. The vacant site of the old Cockatoo Cage which was demolished, a new one having been constructed in another part of the garden, was laid out as a lawn with parterres of flower beds thereon. The ground around the New Cockatoo Cage was also relaid out with an alteration in the path leading to it and an extension of lawns on both sides with a number of flower beds made thereon. The flower beds in the shrubbery on the south-west of the Bhownagar Cage were also altered and relaid out. The old carpet bedding on the edge of the lawn around the fountain opposite the Clock Tower which had much deteriorated was removed and shifted higher up around the fountain basin. The new sight was given as much slope as was possible by burying rubbish from demolished cages under the soil, and an entirely new design of carpet bedding made thereon.

11. As there have been only four ordinary taps for drinking water for visitors to the Gardens, in which water was available only in the morning and late in the afternoon and as the large number of people who visited the Gardens between 10 A. M. and 4 P. M. could get no drinking water from these taps during the hottest part of the day, I had proposed that three or four ornamental drinking fountains with storage tanks should be put up in the Gardens, so that drinking water may be available for visitors throughout the day but this proposal had to be kept in abeyance for want of funds till last year. This matter having come to the notice of the Trustees of the late Mr. Ardeshir Dadabhai Dadysett, they offered a sum of Rs. 2,500 (afterwards increased to Rs. 2,800) which was left by Mr. Dadysett by his will for a well or fountain to be erected in a public place, to be utilized for a drinking fountain for visitors to the Victoria Gardens. This offer was thankfully accepted by the Commissioner and two small ornamental drinking fountains with storage tanks and with marble tablets bearing an inscription commemorating the memory of the donor, were put up during the year under report. This gift for which our thanks are due to the Trustees, has supplied a long felt want, though a few more similar fountains are still necessary to meet the wants of the large number of visitors to the Gardens.

12. The old terneries and palm houses near the office being in a very delapidated condition were entirely renovated during the year under report.

13. It is worth recording that another species of bamboo—*Dendrocalamus strictus* (the solid or Male Bamboo)—flowered and seeded during the year under report, many years after planting.

14. A list of new plants added to the collection during the year under report is given in Appendix A.

15. The grants for Band performances at the different Municipal Bandstands being reduced during the year under report the usual programme of performances, especially during the cold season, had to be much curtailed. Instead of the usual total number of about 35 performances at the Victoria Gardens during the whole year it was possible to give only 12 in the year under report. Similarly the number of performances at the Esplanade and Chowpatty Bandstands had to be reduced from the usual numbers of 53 and 17 to 36 and 12 respectively. This reduction in the number of performances was partly due also to Bands not being available.

16. The total number of band performances with admission fee, at the Victoria Gardens, was 7 against 12 in the preceding year for reasons stated in para. 14 above. The total number of visitors and the fees realized during these 7 performances were 8,956 and Rs. 931-9-0, averaging 1,279 visitors and Rs. 133-1-3 per each performance against 1,460 visitors and Rs. 153-7-2, respectively, in the previous year.

17. Their Excellencies Lord and Lady Willingdon were again pleased to kindly offer their band to play once a fortnight from the 27th December 1915 to 20th March 1916 at the Municipal Bandstands. Four of these performances were given at the Victoria Gardens and three at the Esplanade Bandstand. These performances were highly appreciated by the public and attracted a larger number of people than the performances by other bands. The thanks of the Municipality and the public are due to Their Excellencies for this favour.

18. Our thanks are due to the Bombay Electric Supply and Tramways Company, Ltd., for providing reserved cars free of charge to carry the bandsmen to and from the Bandstands, as usual.

19. Owing to a large and serious abscess on the foot of the elephant, elephant rides had to be discontinued from October to the end of the year and the figures for the elephant rides during the year cannot therefore be properly compared with those of the previous year. During the six months from April to September elephant rides were taken advantage of by 1,604 adults and 3,942 children and the fees realized therefrom were Rs. 323-11-0. The figures for camel rides during the year under report were 513 adults and 1,350 children and the fees realized Rs. 148-8-0 against 340 adults and 555 children and Rs. 78-3-0 respectively in the previous year. The increase in camel rides was due to the stoppage of the elephant rides during six months as mentioned above.

20. The old Wild Ass enclosure near the Refreshment Room being in a rotten condition was pulled down and renovated with reinforced concrete pillars and wire rope fencing.

21. The Lion House was partitioned off into another small compartment so as to enable a third pair to be kept there.

22. A list of additions to the zoological collection by purchase, exchange and presents, and the casualties among the animals, during the year under report, are given in Appendix B. Our thanks are due to all the donors of the animals. Among the presents of animals were 2 Indian Wild Dogs from Mr. Dunbar Brander; 2 Giant Herons, 3 Persian Gazelles, 1 Persian Jackal and 1 Snake Bird from Col. Sir Percy Cox, K. C. S. I., from Basra, and 1 Uryal from the Captain and Officers of H. M. S. Dalhousie.

23. Amongst the animals born in the Garden during the year were 8 Spotted Deer, 1 Binturong, 4 Nilgai, 10 Rhea Chicks, 2 Indian Antelopes, 1 Indian Gazelle and 1 Campbell's Monkey.

24. As trade in wild animals is now very slack on account of the war no important purchases were made during the year.

25. Only one exchange transaction was effected during the year, but it was a very welcome one as it enabled us to increase our stock by a very fine pair of Bengal Tigers given by H. H. the Raj Saheb of Wankaner in exchange for 6 pairs of Spotted Deer.

26. A very serious and unfortunate occurrence in connection with the animals in the Gardens during the year under report was an outbreak of Tuberculosis amongst the Llamas and Spotted Deer. Occasional sporadic cases of the disease from human origin had occurred amongst some of the animals at long intervals in the past. In December last a Spotted Deer however was reported to have died of *Bovine* Tuberculosis by Major Liston of the Parel Laboratory to whom the animals that die in the Garden are sent for *post-mortem* examination. Another Spotted Deer in the same compartment, and two of the Llamas in an adjoining compartment which died soon after, having also been reported to have died of the same disease it was surmised that the whole stock of animals in the two compartments must have been infected with this disease. As cases of Bovine Tuberculosis have not been definitely ascertained to have occurred in this part of India, after consultation with the Health Officer and Major Liston the Commissioner decided to destroy all the animals in the two compartments in order to avoid the risk of introducing and spreading the disease among the cattle in the city. In all 15 Spotted Deer, 5 Llamas and 1 Sambar Deer were destroyed accordingly. The result of the *post-mortem* examinations of these animals justified this prompt action of the Commissioner as all of them, except 2 or 3 Spotted Deer and 1 Llama which were quite young animals, had lesions of the disease on their lungs in a more or less degree. The exact type of the disease—whether bovine or human—has not been definitely ascertained in all of these cases and the results of animal experiments which are being carried out is awaited to do so. The only conjecture that could be formed of the introduction of this disease among the animals in the Gardens is that a pair of Llamas obtained from Europe in 1908 must have come affected with the disease from Europe and they must have subsequently spread it amongst the other animals which were located in their own and the adjacent compartments. A Nilgai which was at first in one of the compartments adjoining that of the Llamas and afterwards transferred to the Antelope enclosure also died subsequently of the same disease. All the enclosures and paddocks in which deers and antelopes are kept have been thoroughly dug up and exposed to sun and air and completely disinfected with chlorinated lime several times.

27. As regards other diseases of an infectious nature only one case each of Anthrax and Rinderpest occurred during the year—a Gazelle and a Nilgai respectively having died from these causes. An outbreak of Hæmorrhagic Septicæmia however carried away 11 Four-horned antelopes which were all located in one enclosure, in the course of a few days only, and Rhea Chicks, an Indian Antelope, a Wild Ass, 2 Persian Gazelles, a Sykes' Monkey, a small Indian Civet and a Lion Cub died of Septicæmia of different kinds such as Bacilliary, Streptococcal and Pneumococcal. A Mallard, a Jungle Fowl, a Brahminy Duck, a Pintail Duck, a Gadwall and a White-necked Stork died from Fowl Cholera. One Binturong, which had been in the Garden collection for many years died of Tuberculosis.

28. Among deaths caused by other diseases were a Four-horned Antelope from Empyæma; a Spotted Deer, a Shama, a Flamingo and an Indian Antelope from Enteritis; a Nilgai and a Suni Antelope from Congestion of Lungs; a Leopard Cub from Congestion of the meninges of the brain; a Nilgai, a Langur Monkey and an Indian Gazelle from Pneumonia; the Lion Cub presented by His Excellency Lord Willingdon in April 1913 and a Ring-tailed Lemur from Paralysis; a Japanese Badger and a Victoria Crowned Pigeon from Fatty degeneration; a Persian Gazelle from Hydatids; 2 Binturong Cubs, 2 White-crested Kalij, a Pelican, a Black-necked Stork, a White Stork, a Palm Civet, a Croccodile, a Shama, 2 Sulphur Crested Cockatoos and an Uryal from accidents and injuries from other animals.

29. We are very thankful again to Major Liston and his staff for undertaking bacteriological examination of dead animals at the Parel Laboratory and for giving general help and suggestions in the treatment of animals, and also to the Principal and staff of the Bombay Veterinary College for occasional help given.

30. Our thanks are also due to the Agents of the B. B. & C. I. and the G. I. P. Railways for their continued favour in granting free passes for animals and their attendants to bring animals from different stations on their lines to Bombay.

31. As more than one species of animals especially the birds, have to be kept in one cage or enclosure for want of sufficient number of cages, most of the visitors find it difficult to distinguish and identify them from the labels of names attached to the cage or enclosure and the educative purpose of the zoological collection in the Garden is therefore not sufficiently subserved. For some years past I have been trying to have labels of names made with painted pictures of the animals or birds on them but have failed to have them done at a reasonable cost. I have however now been fortunate in inducing a Parsi lady to undertake to paint them

for merely their bare cost and she has been entrusted with the work of making about half a dozen of them as samples, which I am sure will prove very useful to the visitors in identifying the animals in the collection.

32. The Northbrook Garden and Sir Cawasji Jehangir Garden at Mahim continue to be occupied with Health Camps. The turfing of the Wellington Fountain was completed and palms in tubs placed around it. An attempt was made to renew the lawn around the Esplanade Bandstand but the work could not be carried out successfully on account of children playing daily over it and trampling upon it. The renovation of the lawn would be possible only if the ground is enclosed and persons kept out of it for about 2 or 3 months during the rains. In connection with the proposal to convert the Northbrook and the Falkland Road Gardens into recreation and play grounds estimates of the cost have been submitted to the Commissioner. As new flowering trees planted out a few years ago in the main avenue of the Elphinstone Circle Garden had grown sufficiently and begun to flower the old unsuitable trees in between them were cut down, which has opened up the views on both sides. The thick shrubberies around the Statues in the Garden were also removed so as to afford a better and clearer view of the Statues.

33. The estimated and actual expenditure of all the Municipal Gardens during the year under report are shown in the table below :—

Name of Garden.	Budget Grants.	Expenditure.	
	Rs. a. p.	Rs. a. p.	
		72,165 2 4	Actually spent.
		23,182 12 8	Liabilities incurred
(*a*) Victoria Gardens	97,247 12 0	95,347 15 0	
		3,940 0 8	Actually spent.
		5,970 12 4	Liabilities incurred.
Do. New Works ...	9,910 13 0	9,910 13 0	
		1,342 6 3	Actually spent.
		194 11 7	Liabilities incurred.
(*b*) Elphinstone Circle Garden ...	1,550 7 2	1,537 1 10	
		981 3 8	Actually spent.
		396 6 11	Liabilities incurred.
(*c*) Northbrook Garden	1,438 3 4	1,377 10 7	
		149 15 2	Actually spent.
		151 5 9	Liabilities incurred.
(*d*) Dick's Tank Garden ...	301 4 11	301 4 11	
		159 1 9	Actually spent.
		134 14 3	Liabilities incurred.
(*e*) Falkland Road Garden ...	294 0 0	294 0 0	
		190 1 9	Actually spent.
		35 6 4	Liabilities incurred.
(*f*) Sir Cawasji Jehangir Garden.	369 8 1	225 8 1	
		24 14 4	Actually spent.
		98 1 8	Liabilities incurred.
(*g*) Bazar Gate Garden	244 0 0	123 0 0	
		3,080 6 0	Actually spent.
		650 13 6	Liabilities incurred.
(*h*) Esplanade Bandstand Green...	3,999 12 8	3,731 3 6	
		380 12 2	Actually spent.
		206 0 5	Liabilities incurred.
(*i*) Flora and Wellington Fountain and the Queen's Statue.	602 10 4	586 12 7	
(*j*) Chowpaty Bandstand ...	1,090 0 0	1,081 9 6	
Total Rs. ...	1,17,048 7 6	1,14,516 15 0	

I have the honour to be,
Sir,
Your most obedient servant,
C. D. MAHALUXMIVALA,
Superintendent, Municipal Gardens.

APPENDIX A.

LIST OF PLANTS ADDED TO THE COLLECTION IN 1915-1916.

Names of Plants.	From whom received.
Bauhinia sp.	Presented by Sir Dorab J. Tata.
Dombeya Burgessiæ	In exchange from the Agri-Horticultural Society of India, Alipur, Calcutta.
Dombeya palmata	
Thunbergia laurifolia	
Strobilanthes anisophyllus	
Dædalacanthus azureus	
Passiflora Fijiensis	
Acacia moliniformis	
Milletia ovalifolia	
Erychochiton brasiliensis	
Memecylon edule	
Ficus Roxburghii	
Ficus rhizocarpus	
Hoya parasitica	
Gustavia augusta	
Napoleona imperialis	
Gardenia devoniana	
Ixora macrothyrsa	
Plumeria lutea	
Plumeria tricolor	
Plumeria Lancasteri	
Nerium flore-pleno	
Begonia Isidore Leroy	
Begonia Lord Annesley's	
Alocasia argyrea	
Drimiopsis Kirkii	
Funkia	
Magnolia mutabilis	
Ligustrum neilgherrense	
Pachira cyathiphora	
Putranjiva Roxburghii variegata	
Passiflora pruinosa	
Passiflora incarnata	
Cassipurea verticillata	
Noronhia emarginata	
Gomphostemma melissiæfolium	
Philodendron crassipes	
Bauhinia red	
Begonia maculata	
Caryopteris Wallichiana	
Eomecon chionantha	
Thunbergia Kirkii	
Centrosema Plumieri	Purchased from the Agri-Horticultural Society, Madras.
Sarcostemma brevistigma	
Ceropegia juncea	
Aristolochia labiosa	
Naravelia zeylanica	
Boussingaultia baselloides	
Nyctocalos Thomsoni	
Gouania domingensis	
Asparagus virgatus	
Asparagus meriocladus	
Ipomoea bryonifolia	
Argyreia grandiflora	
Jasminum courtallensis	

C. D. MAHALUXMIVALA,

Superintendent, Municipal Gardens.

APPENDIX B.

List of increase and decrease of animals in the Victoria Gardens during 1915-16.

A.—The following were added to the collection during the year under report :—

PRESENTED.

1	Four-horned Antelope	Presented by	Mr. W. T. Nash.
1	Indian Antelope	"	" Bomanji A. Engineer.
1	Four-horned Antelope	"	the Honourable Mr. Lalubhai Samaldas.
2	Indian Wild Dogs	"	Mr. Dunbar Brander.
2	Arabian Baboons	"	Messrs. Cowasji Dinshaw and Brothers of Aden.
1	Four-horned Antelope	"	Mrs. R. Emanuel.
1	Four-horned Antelope	"	Mr. N. Maughan.
2	Giant Herons	"	Sir Percy Cox, K.C.I.E., through the Bombay Natural History Society.
1	Four-horned Antelope	"	Mr. Khimji Cooverji.
1	Sloth Bear	"	" H. W. Starte.
1	Malbrouk Monkey	"	" Mirza Mahomed Shirazee.
1	Jungle Cat	"	Col. Sir Percy Cox, K.C.I.E., Basra.
1	Sloth Bear	"	The Roberts Motor Company of Pachmari.
1	Indian Antelope	"	Mr. Ranchodji J. Desai.
8	Persian Gazelles	"	Col. Sir Percy Cox, K.C.I.E., from Basra.
2	Persian Jackal		
1	Snake Bird		
1	Sloth Bear	"	Mr. W. S. Davie.
1	Indian Gazelle	"	" N. V. Jayker.
1	Indian Antelope	"	" F. Cordeiro.
1	Palm Civet	"	Miss M. Porritt.
1	Sambar Deer	"	Mr. D. P. Proctor.
1	Uryal	"	the Captain and Officers of H.M.S. Dalhousie.
1	Dog-faced Baboon	"	Mr. Kalkasing Haratsing.
1	Hyæna Cub	"	" D. K. Wacha.
1	Small Indian Civet	"	" E. C. B. Acworth.

BORN IN THE GARDENS.

8	Spotted Deer.	2	Indian Antelopes.
3	Binturongs.	1	Indian Gazelle.
4	Nilgais.	1	Campbell's Monkey.
10	Rhea chicks.		

PURCHASED.

2	Black necked Storks.	1	Wild Ass.

RECEIVED IN EXCHANGE.

2 Tigers.	From H. H. the Raj Saheb of Wankaner.

B.—The following were among those that died or were destroyed during the year under report :—

1	Syke's Monkey.	1	Uryal.
1	Mongoose Lemur.	20	Spotted Deer.
1	Ring-tailed Lemur.	1	Wild Ass.
1	Lion.	8	Llamas.
2	Binturongs.	1	Urraca Jay.
1	Japanese Badger.	1	Pelican.
3	Indian Antelopes.	1	Black-necked Stork.
1	Suni Antelope.	1	White-necked Stork.
13	Four-horned Antelopes.	1	Painted Stork.
2	Indian Gazelles.	1	White Stork.
4	Persian Gazelles.	4	White-crested Kalij.

C. D. MAHALUXMIVALA,
Superintendent, Municipal Gardens.

VICTORIA AND ALBERT MUSEUM.

REPORT OF THE CURATOR AND SECRETARY, VICTORIA AND ALBERT MUSEUM, RECEIVED UNDER HIS No. 25 DATED 22ND OF APRIL 1916.

SIR,

I have the honour to submit the Annual Report of the Victoria and Albert Museum for the year ending 31st March 1916.

Total No. of Visitors.

The following table gives the comparative attendance of visitors to the Museum during the years 1914-1915 and 1915-1916 :—

Year.	No. of days the Museum was open.	No. of visitors in the year.	Daily average.
1914-1915	312	673,796	2,160
1915-1916	314	745,216	2,373

It will be seen that during the year under report there has been an increase of over 71,000 in the number of visitors as compared with the year 1914-1915.

Condition of the Building.

During the monsoon certain portions of the Museum roof, that over the Old Bombay Room and the upper north-eastern room, leaked freely, necessitating the removal of all exhibits and the stoppage of work in that section. The sudden fall of one of the semi-circular ornamental panels above the windows in the main gallery was due to the same cause. The Museum was crowded at the time, but fortunately no one was injured. The Executive Engineer was requested to examine the condition of the other panels with a view of their being securely fastened and to make the necessary repairs to the whole roof.

General Equipment.

One large show case to contain a group of bears, and thirteen small cases for specimens of shells were purchased during the year. To make room for the large show case, two old cases were removed and sold by public auction under orders of the Municipal Commissioner.

Natural History.

(*a*) The identification of the specimens of shells having been already completed as reported last year, the work of rearranging them in their order was taken in hand. Five of the new cases purchased to accommodate this collection, have been completed and printed labels are being prepared for the specimens.

(*b*) The skeleton of a whale, which was reported last year to have been brought from Ratnagiri is awaiting the construction of a suitable stand for its reception. The work is entrusted to the Department of the Executive Engineer, Mechanical Branch.

(*c*) A specimen of a Himalayan Bear received at the close of the last official year was stuffed and mounted. It will be exhibited in the large new case in the midst of natural surroundings.

(*d*) The carcasses of the following animals were received from the Superintendent of Victoria Garden: One Pelican, One Crocodile, One Victoria Crown Pigeon, One Brown Bobbin, One Mallard, One Lion Cub, One Painted Stork, One Kingfisher, One Sulphur Crested Cockatoo, One White Crested Kalij, One Brahminy Duck, One Silver Pheasant, and two Pangolins.

These were skinned, cured, and mounted by the Museum taxidermist.

(*e*) A new case to contain Game Birds is under preparation, and arrangements have been made to secure specimens of such birds as are common to the Island of Salsette and the neighbouring localities. Some of these have been obtained and have been skinned and set up by the taxidermist.

Archæology. The specimens of Gandhara Sculptures were re-identified by the aid of a list sent to the Museum some years back by Dr. J. Burgess, which was found among the old records. Certain discrepancies in the labels attached to the sculptures were noticed and have been duly corrected.

A small pot containing a few specimens of copper coins struck by the Portuguese, was found when excavations were being carried out near Chaupaty. It was sent to the Museum by the Commissioner and has been added to the collection.

A stone tablet containing an inscription in English formerly affixed to the wall of the Cawasji Patel Tank in Bombay, was removed to the Museum on the tank being filled in by the Municipality.

Old Bombay Room. Twenty-seven photographic views of Bombay taken mostly between the years 1880 and 1887 were purchased. They contain records of considerable topographical interest.

The following fifteen photographs of old buildings and places of interest in the City were taken by the 2nd Museum Assistant. The Nakoda Tank, Old Head-Quarters of the Bombay Volunteer Rifles, Pydowni, Old Municipal Office, Roman Catholic Cathedral at Bhuleshwar, Jumma Masjid, Mahim Durga, Hindu Burning Grounds at Walkeshwar and Queen's Road, Muhammadan and Christian Burial Grounds at Queen's Road, the Old Secretariat, and the Mazagon Castle. Thanks are due to the authorities in charge of these buildings for the ready assistance they gave to the members of the staff in their work.

A photographic enlargement of an engraved portrait of Queen Catherine of Braganza, wife of King Charles II of England was made by the 2nd Assistant, and photographs of paintings of several of the former Governors of Bombay have been secured.

A panoramic view of the City of Bombay in the present century was purchased and framed.

The prints and photographs in the collection now number 254.

The available space in the north-western room having been filled, it has become necessary to use the north-eastern room for the remaining prints.

A catalogue, containing a brief history of the different exhibits in the room, has been partially prepared.

Industrial Section. The whole collection of specimens in this section has been thoroughly over-hauled and re-arranged in new cases, a separate case being provided for each industry. This work was commenced in the year 1913-1914 as will be seen from my previous reports, and I am glad to state that within two years it has been nearly completed in a satisfactory manner. This will enable a general catalogue to be made of the entire collection, which when complete, will not only contain a list of the specimens, but also a short monograph dealing with the different industries that are exhibited. There are in all about thirty cases in this section, and out of these the exhibits contained in about twenty-eight cases have been so catalogued.

I regret to report in connection with this section that a burglary was committed at the Museum on the night of the 1st of January last, and a few specimens of jungle ornaments were stolen. These, as stated in my last report, were arranged in a special case in the south bay of the Museum. The Police have so far obtained no clue to the identity of the thief. Proposals to guard the Museum against the recurrence of such attempts in future have been submitted to the Municipal Commissioner.

Turbans and Head-dresses. The work of renovating some of the faded and discoloured specimens in the collection was finished in the course of the year under report. In all about forty specimens were purchased.

Indian Musical Instrumens. The following specimens were purchased and added to the collection :—

One Sanai, One Samel, One Pawa and One Indian Conch.

Specimens of Pottery. About eighteen different specimens including vases and plates showing different sorts of clays and glazes used in their manufacture at the Sir George Clarke Technical Laboratories at the Sir J. J. School of Art, Bombay, were purchased and added to the collection.

Geological collection.

This collection was removed from the north-eastern room on the gallery floor to the south-eastern room on the ground floor to make rooms for prints and photographs of the Old Bombay Collection. The collection was thoroughly over-hauled and rearranged in the cases.

A few specimens of fossilised betel and other nuts were presented to the Museum by Mrs. L. Rooke of Wardha in Central Provinces. These were found near a hill at Girar, a small village about twenty miles from Hinganghat. Mrs. Rooke has also sent an extract of the history of these stones taken from the Central Provinces Gazetteer.

The War.

With a view to affording instruction regarding the War to the illiterate visitors to the Museum, a number of picture post cards and other matter illustrative of the various phases of the war have been purchased and exhibited in frames. These illustrations are added to and changed at frequent intervals, and have proved very popular to the class they are intended to enlighten.

A show case exhibiting a portion of a battlefield is under preparation. To carry this out about a thousand small models of men in fighting attitude belonging to the armies of the Allies and the Enemy have been prepared at the Museum, and also models of small guns specially cast to scale at the Reay Art Workshop of the Sir J. J. School of Art, Bombay, and small models of zeppelins and aeroplanes have been procured. These will be so arranged as to illustrate a battle in a more realistic manner than is possible by means of a picture.

Figures representing a unit of each of the different Regiments in India are being prepared. Of these twenty-eight figures are ready.

The Library.

The following books were purchased for the Museum Library during the year.

Indian Antiquary 1915, Times History of the War, 25 Journals of the Bombay Branch of the Royal Asiatic Society, The Charms of Bombay, Elements of Hindu Iconography, Sarvadarsana Sangraha, Armies of India, Our Soldiers and Sailors, Dress Regulations of the Army, Sherring's Hindu Tribes and Castes, One Hundred Bombay Notes, The Old East Indiamen, Amulets, The Book of Talismans, Religions of India, Hymns of the Atharvanveda and Folklore Tales of Gujrat.

A copy of the catalogue of coins in the Punjab Museum was presented by the Under-Secretary to Government, Financial Department, Punjab.

A copy of the catalogue of pre-historic antiquities in Madras was presented by the Superientendent of Government Press, Madras.

The printing of labels.

The work of printing labels for the specimens of the different sections in the Museum was continued throughout the year. In all about 7,300 labels were struck off during the year, besides two short monographs on the Ivory Industry and the Specimens of Ethnological Heads in the Museum.

The order and cleanliness of the galleries, and the care of the specimens throughout the Museum have been maintained at the same high level of previous years by Mr. Pai and the permanent staff under him, and I have much pleasure in expressing my satisfaction with the manner in which their work has been carried out.

I have the honour to be,
Sir,
Your most obedient servant,

CECIL L. BURNS,
Curator and Secretary.

No. 2619 of 1916-17.

From

A. G. CHRISTIANSEN, Esq., M.S.E., A.M.I.M.E.,

Storekeeper, Municipality.

To

The MUNICIPAL COMMISSIONER

FOR THE CITY OF BOMBAY.

Municipal Stores Office,

Bombay, 12*th June*, 1916.

Sir,

As called for in your No. 340 of 6th April 1916, I beg to submit the usual Annual Report of my Department for the year 1915-16.

2. During the year I continued to hold the post of the Storekeeper but was on three months' privilege leave from 20th November 1915 to the 19th February 1916, both days inclusive, during which period my Assistant Mr. K. N. Ranina acted for me.

3. Soon after the commencement of war in 1914, I was deputed to do my turn of duty as a volunteer on active service in connection with the Bombay Port Defences. This work was done by me after Office hours. As it was considered dangerous, during the early days of the monsoon of 1915 to transport the members of the Electric Engineering Company to the Islands daily to man the search lights, I was deputed to do my turn of duty on Middle Ground alternate weeks from the 20th June to the 21st August 1915 both days inclusive. I was thus away for 33 days during which period I was relieved of my Municipal duty. My work, during my absence, was carried out by my Assistant Mr. K. N. Ranina in addition to his own without any extra remuneration.

4. As stated in my report for 1914-15 after the outbreak of the war less trouble than anticipated was experienced in obtaining annual supplies of general stores from regular contractors during that year. But during the year under review the difficulty was greatly enhanced and in some cases the contractors supplied only articles required for immediate consumption. This was due to the market rates being far in excess of the contract rates. Owing to the contractors not supplying articles required for stock, the stock in many cases was low, but no serious inconvenience was caused in the supply of stores to consuming departments.

5. During the year owing to very high tender rates no contract was made for the supply of iron and steel, but the supply was continued partly on obtaining rates from known merchants in these articles through telephone and partly by inviting quotations.

6. The contractors for the supply of hose canvas, Europe, 2½" special quality, did not supply any hose during the year as they could not import the same from Home, the Government having commandeered all out-turn of the factory from which the contractors had arranged to supply the hose. By keeping in constant touch with the market, efforts were made to supply from time to time hose similar in quality to that required, but the Municipality had to pay for such purchases more than double the contract rate.

7. Owing to irregular shipping, the contractors for S. W. articles could not supply pipes and fittings in time. The demands for these specially 6" and 9" pipes were very heavy. On enquiry it was ascertained that there was a very large stock of English make S. W. pipes in the local market, but the dealers were not willing to sell them subject to the Municipal test. In rare cases offers were made subject to our test, but the pipes were not accepted as they failed in hydraulic, etc., tests. In spite of these difficulties pipes of required specification were supplied with as little delay as possible.

8. The contractors for the supply of Izal powder were not able to supply the stipulated quantities regularly, but up to the close of the year, the stock in hand was found sufficient for sanitary purposes.

9. To add to our difficulties the contractors for the supply of pesterine suddenly stopped the supply. Prompt enquiry was made for other suitable substance, and arrangements have now been made with another firm for pesterine.

10. For the first time during the year under review the Municipality commenced using Indian cement. A contract was entered into with Messrs. C. Macdonald & Co. for the supply of Katni cement. Some inconvenience was caused owing to the delay in the supply of cement due to the Railway's inability to cope with demand of the contractors for wagons.

11. From the above few cases it will be seen that we have passed through a year of exceptionally hard time throwing much extra work on me and on my staff, who one and all worked hard to meet the situation. I and my Assistant Mr. Ranina who acted for me as pointed out in paras. 2 and 3 above had to keep in constant touch with the fluctuating market. It may be said to the credit of Mr. Ranina that he worked with exceptional tact and ability and thus succeeded in maintaining the efficiency of the Department during my absence and that, too, at a very critical time.

12. The question of allowing some increase to the contractors who supplied us stores after the outbreak of the war at their contract rates for 1914-15, which was under consideration while the report for that year was submitted, has not yet been finally decided upon.

13. As the articles belonging to Central Stores in my charge and those belonging to water works in charge of the Superintendent, M. B., are frequently mixed up, it has been arranged in consultation with the Hydraulic Engineer and with the approval of the Commissioner to hand over a portion of the ground in my charge entirely to the Superintendent, M. B., and to rail off the boundary to mark the spaces allotted to the two departments. On the other hand the plot of ground opposite the office of the Superintendent, M. B., which was used by both the Departments in general is to be entirely handed over to me. Though by this arrangement there is some improvement on the existing state I am strongly of opinion that it is not at all desirable to locate in the same compound two large Departments, one receiving and the other consuming, and it is hoped that the Engineering Department will be able to find a commodious place for the location of the General Stores and the B. B. Pipe Depot. This question is under consideration for years past and the sooner it is settled the better especially as in the meantime nothing can be done to improve the unprotected state of the yard at both the places.

14. As in the previous year the vacant plot in the yard of the B. B. Pipe Depot, admeasuring 5,433 square yards was leased for cultivation for four months ending 31st October 1915 for Rs. 270 against Rs. 280 realized in the previous year.

15. The usual statements showing the annual and special contracts entered into and of important quotations called for during the year will be found in Appendix A to C attached.

16. From Appendix D in which the value of stores purchased and issued during the year under review together with opening and closing balances are given, it will be seen that compared with the closing balance on 31st March 1915, there is a decrease of Rs. 70,668-12-4 in the value of new and second-hand serviceable stores in hand on 31st March 1916. The decrease was due chiefly to heavy issue of stores to Drainage Department. The gross decreases aggregated Rs. 46,280-2-2 against which there were increases amounting to Rs. 15,611-5-10. The increases are principally under iron and steel and castings stocked at the close of the year for issues during the 1st quarter of 1916-17.

17. Principally owing to utilization of articles of surplus and obsolete stores by the Drainage and Water Departments, the value of such stores on 31st March 1916, was reduced by Rs. 901-10-1 as compared with that of the previous year.

18. The line suspense stores in charge of different Inspectors of the Water Department show a decrease of Rs. 16,992-10-2 on 31st March 1916 as compared with the figure of the previous year. This is due mainly to articles lying on the lines being used in connection with the duplication of the Tansa pipe line. The total value of the stores on the lines on 31st March 1916 aggregated Rs. 86,519-14-6. Owing to pressure of work due to the European war it was not possible to make any progress into the question raised last year as to the advisability of retaining these articles on the lines.

19. The verification of stores in my charge which was entrusted to Mr. K. R. Wacha as stated in the last report was completed during the year under review showing a net excess of Rs. 212-3-10. Considering that the total receipts and issues of stores for

1914-15 aggregated approximately Rs. 18,21,000 and many of these were in small numbers and quantities, the result seems most creditable. In view of the fact that this verification was completed so late as on 17th June 1915, fresh checking of the number or quantity of the different articles during the year under review was not considered necessary.

20. The verification of stores on lines in charge of Water Department about which a reference was made in the last report was completed by Mr. Simkins during the year.

21. The Assistant Storekeeper was deputed during the close of the year to verify the stores on the lines in charge of the Water Works Inspectors. The work has been under progress at the time of writing this report.

22. The vocabulary of stores prepared by Mr. Simkins in conjunction with me is under revision. It was stated in my last report that the work would be in the hands of the printers shortly. The printing had however to be delayed owing to the revision since considered necessary.

23. The work of maintaining the standard samples was much advanced during the year. But much still remains to be done. This point is receiving my attention.

24. The question of a fixed imprest to the Superintendent, M. B., is still under consideration by the Hydraulic Engineer.

I have the honour to be,

Sir,

Your most obedient servant,

A. G. CHRISTIANSEN, M.S.E., A.M.I.M.E.,

Municipal Storekeeper.

APPENDIX A.

General Contracts for 1915-16.

Schedule No.	Name of the Article.	Name of the Contractor.
1	Axes, Pick, Shovels, Spades, &c.	Messrs. Hasanalli Adamji & Co.
2	Balls and Valves	„ „ „
3	Baskets, Cane	„ Mahomedalli Hasanalli & Co.
4	Belting	„ John Fleming & Co.
5	Blankets or Cumblees...	„ Bhawoo Kashinath & Co.
6	Bolts and Nuts	„ „ „
7	Brooms and Ribs, Goa	„ Hasanalli Adamji & Co.
8	Brushes	„ „ „
9	Buckets, Galvanized	„ Bhawoo Kashinath & Co.
10	Canvas and Hose, Canvas	„ Hasanalli Adamji & Co.
11	Capes and Coats	„ „ „
12	Charcoal and Firewood	„ „ „
13	Cloth, Dungry...	„ „ „
14	Coats, Water-proof	„ Bhawoo Kashinath & Co.
15	Crockery, Glassware, Lampware	„ Hasanalli Adamji & Co.
16	Cutlery	„ Jehangir Hormusji & Co.
17	Electrical Goods	„ Hasanalli Adamji & Co.
18	Files and Rasps	„ William Jacks & Co.
19	Globes, Glass Pine	„ Bhawoo Kashinath & Co.
20	Globes and Lanterns Marked (B. M. C.)	„ Hasanalli Adamji & Co.
21	Grease and Oils	„ Vacuum Oil Company.
„	Do. do.	„ Shaw Wallace & Co.
„	Do. do.	„ Jehangir Hormusji & Co.
22	Hardware	„ Hasanalli Adamji & Co.
23	Harness and Saddlery	„ „ „
24	Hoes, Iron or Powras	„ „ „
25	Hose, Canvas, Europe, special quality	„ Macbeth Bros. & Co., Ltd.
26	Hose, India Rubber	„ Hasanalli Adamji & Co.
28	Lead, Pig	„ L. & F. Barraclough & Co.
29	Leather Goods...	„ Hasanalli Adamji & Co.
30	Line, Coir	Mr. A. E. Cherawalla.
31	Metals	Messrs. Hasanalli Adamji & Co.
32	Miscellaneous Articles	„ „ „
33	Motor Accessories	The French Motor Car & Electric Co., Ltd.
34	Nails for Bullock Shoes, Pins, Shoes and Washers	Messrs. Hasanalli Adamji & Co.
35	Nails and Screws, Iron	„ „ „
36	Nose String	„ Bhawoo Kashinath & Co.
37	Nuts, Rivets and Washers, Iron	„ „ „
38	Oils, Castor and Sweet	„ Karamsi Manji & Co.
39	Oil, Cocoanut	„ Manji Hirjee & Co.
40	Oil, Kerosine and Petrol	The Standard Oil Company.
„	Do. do.	The Asiatic Petroleum Co.
41	Oil, Linseed	Messrs. Turner Morrison & Co.
„	Turpentine	„ Wilkinson, Heywood and Clerk. Ltd.
42	Oils, Lubricating	The Vacuum Oil Company.
„	Do.	Messrs. Macbeth Bros. & Co., Ld.
43	Oil Paints, Varnish, &c.	„ Heatly and Gresham, Ld.
„	Do. do.	„ Hasanalli Adamji & Co.
„	Do. do.	„ Wilkinson, Heywood & Clerk. Ltd.
44	Packing	„ Macbeth Bros. & Co., Ld.
„	Do.	„ Hasanalli Adamji & Co.
45	Paints	„ Wilkinson, Heywood & Clerk. Ltd.

APPENDIX A—*concluded.*

Schedule No.	Name of the Article.	Name of the Contractor.
46	Pans and Pots, earthen	Messrs. Bhawoo Kashinath & Co.
47	Pitch and Tar	„ Hassanalli Adamji & Co.
48	Plumbers' Stores	„ „ „
49	Rope, Coir and Rubber Hand	„ Bhawoo Kashinath & Co.
50	Rope, Cotton	„ „ „
51	Rope, Manilla	„ Shallebhoy Tyebji & Sons.
52	Rubber goods	„ Hassanalli Adamji & Co.
53	Salt, Soap and Soda	„ Bhawoo Kashinath & Co.
54	Shafts, wooden, bhendy	„ „ „
55	Shipchandlers' Stores	„ Hassanalli Adamji & Co.
56	Steel Cast	„ „ „
57	Tarpaulin Canvas	„ Bhawoo Kashinath & Co.
58	Testers Smoke	„ Hassanalli Adamji & Co.
59	Tools	„ „ „
60	Tubes and Tyres for Motors	The Dunlop Rubbers Co.
61	Umbrellas	Messrs. Hassanalli Adamji & Co.
62	Waste Cotton	„ „ „
63	Wool, Lead	„ William Jack & Co.
64	Yarn	„ Bhawoo Kashinath & Co.
65	Iron Castings, General	Mr. Meheralli Hirji.
66	Do. Workshops	Messrs. Alcock Ashdown & Co.
67	Timber, General	„ Karrim Ayub & Co.
68	„ Calicut and Benteak logs	Mr. Oghadbhai N. Mehta.

A. G. CHRISTIANSEN, M.S.E., A.M.I.M.E.,
Storekeeper.

APPENDIX B.

SPECIAL CONTRACTS FOR 1915-16.

No.	Name of the Article.	Name of the Contractor.	Amount. Rs.	a.	p.
1	Sulphur and Acid, Hydrochloric...	Messrs. Wright & Co.	790	0	0
2	Stoneware Pipes and Fittings ...	The Universal Agency Co. ...	6,781	9	4
3	Bronze Wire Gauze	Messrs. Banaji Sons & Co. ...	1,209	0	0
4	Spare parts of Motors	„ Garlick & Co.	5,309	1	0
5	Pipes, C. I., 6" and 9"	„ Macbeth Brothers & Co.	2,020	1	10
6	Zondo Fluid	„ W. Crowder & Co., Ltd.	6,760	0	0
7	Baskets, Cane, special	„ Mahomedalli Hassanalli & Co.	1,250	0	0
8	Izal Powder	„ Thomson & Taylor ...	9,300	0	0
9	C. I. Pipes, special castings, Sluice Valves, Hydrants, etc. ...	„ Macbeth Brothers & Co., Ltd.	38,455	0	0
10	Steel, mild, bars, plates, etc. ...	„ Chaganlal & Co. ...	1,878	7	2
11	C. I. Pipes, 12"	„ Turner Hoare & Co. ...	6,820	3	10
12	Turnorine Valve Faces	„ „ „ ...	2,375	0	0
13	Light Railway Materials ...	„ Macbeth Brothers & Co.	1,379	14	6
14	Brass Broom Ribs	„ W. H. Brady & Co., Ltd.	768	0	0

APPENDIX B—*concluded.*

No.	Name of the Article.	Name of the Contractor.	Amount.
			Rs. a. p.
15	S. W. Pipes, 9"	The Universal Agency Co. ...	2,468 12 0
16	Teakwood Sleeper, half round ...	Messrs. Haji Ahmed Haji Sulaeman & Co.	6,125 0 0
17	W. I. Railway Spikes	„ Richardson & Cruddas ...	520 0 0
18	Shafts, Ventilating	Mr. Mahomedalli Essabhoy ...	912 0 0
19	Baskets, Cane, special	Messrs. Mahomedalli Hassanalli & Co.	1,125 0 0
20	Pipes, S. W., 9"	The Universal Agency Co. ...	5,097 10 6
21	Frosts, Patent, Water Meters ...	Messrs. Garlick & Co.	65,355 0 0
22	Cement, Katni	„ C. Macdonald & Co. ...	75,000 0 0
23	Bags, Hessian Cloth	„ Bhawoo Kashinath & Co.	4,164 1 0
24	Pipes, S. W., and Fittings ...	The Universal Agency Co. ...	7,201 9 8
25	Baskets, Cane, 26"	Messrs. Mahomedalli Hassanalli & Co.	1,312 8 0
26	Cement, Portland	„ Turner Hoare & Co. ...	4,800 0 0
27	Pipes, S. W., and Fittings ...	The Universal Agency Co. ...	4,812 0 7

A. G. CHRISTIANSEN, M.S.E., A.M.I.M.E.,
Storekeeper.

APPENDIX C.

IMPORTANT QUOTATIONS INVITED DURING 1915-16.

Serial No.	Articles.	Quantity.
1	Galvanometer	No. 1
2	Canvas, Europe, green, 3' wide, oiled	Yds. 44½
3	Iron Sheets, galvanized, corrugated, curved	Nos. 48
4	„ „ „ „	„ 50
5	Harness, Horse, single, Europe	Sets 2
6	Awning, best Canvas, Chocolate colour	„ 31
7	Rubber Discs	Nos. 28
8	Steel, mild, bars, plates, etc.	Lot.
9	Iron Plates, corrugated, etc.	„
10	Steel mild plates, Bars, etc.	„
11	Iron Bars, Steel Bars, etc.	„
12	Steel, mild, angles, galvanized plates, etc.	„
13	Steel, mild, plates, angles, etc.	„
14	Iron Bars, steel, mild, angles, etc.	„
15	Iron Sheets, corrugated	Nos. 17
16	Locks, pad, brass, 2"	„ 36
17	Lamps, Electric, Incandescent	Doz. 6
18	Bolts and Nuts, W. I., 1¼" × 6"	Nos. 180
19	W. I. Railway Chair Spikes	„ 4,000
20	Steel mild plates and angles	Lot.
21	W. I. Galvanized Sheets, plain and corrugated	„
22	Steel, mild, plates, angles, bars, etc.	„
23	Iron plates, galvanized, corrugated	Nos. 15

APPENDIX C—*continued.*

Serial No.	Articles.	Quantity.
24	Canvas, Europe, Green, W. P. oiled, 3′ wide	Bolt 1 (48½ yds.)
25	Steel mild plates, Iron flat Common	Lot.
26	Iron and Steel Bars, plates, angles, etc.	„
27	Harding's 6 figure square ejector	Nos. 4
28	Steel mild plates, Charcoal plates, etc.	Lot.
29	Chain Iron, Galvanized, ⅜″ Short Link	R.ft. 250
30	Peto and Radfords accumulators	Nos. 2
31	Rakes W. I., 2 pronged	„ 100
32	Steel mild plates, Bars, etc.	Lot.
33	Canvas, Europe, 3′ wide	Yds. 36
34	Iron flat Galvanized plain sheets, etc.	Lot.
35	Iron Bars, Steel plates, etc.	„
36	„ „ „	„
37	„ „ „	„
38	„ „ „	„
39	Steel mild square, ⅝″	Cwts. 10
40	Leather Hides, Cow Greased	Hides 6
41	Bolts and Nuts, ¾″, ⅞″, 1″ diameter	Cwts. 84
42	Cloth Hessian, 50″ wide	Bundles 6
43	Iron Bars, angles, etc.	Lot.
44	Copper Tubes, Solid drawn	Nos. 4
45	Kailwood Scantlings	„ 38
46	Taps and Dies	Case 1
47	Steel mild flat, Half Round, etc.	R.ft. 996
48	W. I. Steam pipes, 3½″	„ 200
49	Steel mild flat, etc.	Lot.
50	Rakes W. I. 2, pronged	Nos. 100
51	Iron Bars, plates, etc.	Lot.
52	Cots, Caned	Nos. 50
53	Hose, India Rubber, ¾″	R.ft. 40
54	Hose Canvas Europe, 2″	„ 4,000
55	„ „ 2½″ 18 ply	„ 4,000
56	„ India Rubber armoured, 1″ × 3 ply	„ 140
57	Hose, Flaxen, 2½″ × 18 ply	„ 3,000
58	Pipes C. I., 15″	Nos. 6
59	„ „ 15″	„ 12
60	Sluice Valves C. I., 9″	„ 5
61	Pipes C. I., 3″	„ 62
	Sluice Valves, 3″	„ 11
62	Sluice Valves C. I., 4″	„ 12
63	Pipes C. I., 4″	„ 85
	„ „ 3″	„ 50
64	Sluice Valves C. I., 5″	„ 4
	„ „ „ 6″	„ 5
65	Pipes S. W., 4″	„ 150
	„ „ Channels, 6″	„ 60
66	Traps Gully Stoneware	„ 62
67	Plugs for Sewer Traps S. W.	„ 35
68	Pipes S. W., 4″	„ 282
69	Traps Gully S. W., 6″ × 4″	„ 100
70	„ „ „	„ 150
71	S. W. Pipes, 9″	„ 344
72	Diagrams for Deacons Meters	„ 2,000
73	Spare parts of Kennedy Meters	Lot.
74	Boots and Woollen Putties	„

A. G. CHRISTIANSEN, M.S.E., A.M.I.M.E.,
Storekeeper.

APPENDIX D.

Particulars.	General Stores.	Surplus and Obsolete Stores.	Line Suspense Account.	Total.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Value of Stores in hand on 1st April 1915	2,73,185 15 2	4,847 7 9	1,03,512 8 8	3,81,545 15 7
Value of Stores Receipts, including transfer during 1915-16.	7,57,991 0 10	125 8 6	1,170 3 2	7,59,286 12 6
Total value ...	10,31,177 0 0	4,973 0 3	1,04,682 11 10	11,40,832 12 1
Less—				
Value of Stores issued, including transfer during the year 1915-16.	7,88,684 3 10	1,027 2 7	18,162 13 4	8,07,874 3 9
Balance ...	2,42,492 12 2	3,945 13 8	86,519 14 6	3,32,958 8 4
Add—				
Discrepancies adjusted as per Clause 29 of the Stores and Stores Audit Manual against Rate Adjustment Account.	24 6 8	....	.....	24 6 8
Value of Stores on the 31st March 1916	2,42,517 2 10	3,945 13 8	86,519 14 6	3,32,982 15 0

A. G. CHRISTIANSEN, M.S.E., A.M.I.M.E.,
Storekeeper.

LICENSE DEPARTMENT.

I have the honour to submit my Annual Report, on the working of the License Department, for the year 1915-1916.

2. During the year under report, 12,374 licenses were issued, the total Revenue collected being Rs. 1,13,521-12-0, *vide* attached Statements marked A and B. This gives an increase of 407 in the number of licenses issued and of Rs. 3,815-10-0 in the Revenue over the figures of the preceding year.

3. The fees remaining to be recovered for the year amounted to Rs. 294-12-0 as detailed below:—

Ward.	No. of Cases.	Total amount. Rs. a. p.
A	1	0 12 0
B	5	11 12 0
C	21	164 0 0
D	13	57 4 0
E East	4	10 8 0
E West	8	26 0 0
F	4	18 8 0
G	2	6 0 0
	58	294 12 0

4. The miscellaneous receipts amounted to Rs. 66-4-0, as detailed below:—

	Rs. a. p.
For the production of records in Courts	10 0 0
For the inspection of Office records	6 0 0
For the duplicate copies of Licenses, &c. ...	50 4 0
Total ...Rs	66 4 0

5. In 90 cases refunds of License fees amounting to Rs. 950-2-0 were allowed.

6. The new Bye-law, regarding the provision of 15′ open spaces all round milch cattle stables, was enforced during the year under report. In the stables where there were no sufficient open spaces a proportionate reduction was made in the number of animals licensed and proceedings had to be taken in some cases for the removal of excess animals. Several new stables have been built and are being built in Agripada and other parts of the City.

7. The amendment of Section 461 of the Municipal Act is now passed. The Bye-laws in respect of Horse and Bullock stables are to be confirmed by Government.

8. The work of licensing Milk shopkeepers as well as dealers in or importers or sellers or hawkers of milk was entrusted to the Health Department, to which it rightly pertained, from 1st October 1915. The whole Milk Staff was accordingly transferred to that Department. The total Revenue realized from Milk Licenses upto 30th September 1915 was Rs. 4,777-8-0, as detailed below:—

		Rs. a. p.
645	Milk (Shopkeepers)	2,453 12 0
864	„ (Hawkers)	1,573 0 0
528	„ (Importers)	699 0 0
	Passes to servants of shopkeepers, &c....	51 12 0
2,037	Rs.	4,777 8 0

9. For the first time all the Noisy Trades, such as Tinsmiths ; Coppersmiths ; Aluminium Factories ; Iron Safe Manufacturing Factories ; German Silver Factories ; Iron and Tin Trunk Making and Sheet Metal Working Factories ; Glass Bevelling and Glass Polishing ; Stone Grinding and Cutting ; Marble Cutting, Grinding and Polishing ; and Metal Cutting, were brought under control by the issue of Licenses. The principal condition of the license was that the work should be carried on only between the hours of 7 a.m. and 7 p.m. (B. T.) In the beginning there was some opposition from Coppersmiths and Blacksmiths, but it died away in course of time.

10. Section 394 of the Municipal Act has been further amended by Act I of 1916 and "Keeping of Eating Houses" has been included in Part IV of Schedule M. The amendment was passed on 12th February 1916. Licenses for these trades will be issued during 1916-1917 as soon as the License Form is passed by the Commissioner and the scale of fees is approved by the Corporation.

11. The total number of prosecutions during the year against persons carrying on trades, subject to licenses, without licenses, and for infringing the conditions of licenses, was 4,632 as detailed below :—

COURT.	No. of cases in which the accused were convicted and fined.	No. of cases in which the accused were convicted but warned and discharged.	No. of cases in which the accused were acquitted.	No. of cases withdrawn.	No. of cases for 1914-15 postponed to 1915-16.	Total No. of cases filed in 1915-16.	No. of cases postponed.	Total amount of fines inflicted.
								Rs. a.
Chief Presidency Magistrate ...	332	44	3	1,007	23	1,394	8	7,131 0
Third Presidency Magistrate ...	496	92	5	1,109	20	1,713	11	4,399 8
Fourth Presidency Magistrate ...	489	119	2	901	16	1,525	14	6,924 0
Totals ...	1,317	255	10	3,017	59	4,632	33	18,454 8

12. There were 1,572 convictions, but in 1,317 cases fines were inflicted aggregating Rs. 18,454-8-0. The average fine per case works out to Rs. 14.

13. The large increase in Revenue as well as the increased court work which brought in a large amount, *viz.*, Rs. 18,454-8-0, in the shape of fines, entailed hard work on the whole staff.

I have the honour to be,
Sir,
Your most obedient servant,
P. P. VAGH,
Superintendent of Licenses.

A.

Yearly total of License fees recovered during 1915-1916.

No. of Licenses issued.	Nature of Trade.	License fees.
		Rs. a.
55	Aerated Water (manufacturing)	1,010 0
11	Ashes	117 8
183	Bakeries...	3,620 0
3	Bones	17 8
8	Bricks (manufacturing) (hand-made)	36 4
4	Candles (do.) (do.)	70 0
13	Carbide of Calcium (retail)	65 0
6	Do. do. (wholesale)	180 0
1	Catgut	15 0
634	Charcoal	4,881 8
140	Chemical preparations	2,198 12
210	Cloths in Indigo and other colours Dyeing (hand power)	1,800 0
10	Do. do. do. (mechanical power) ...	490 0
395	Coal and Coke	3,591 8
55	Cocoanut fibre, Flax, Hemp and Jute	764 12
48	Cotton (cleaning)	731 4
272	Cotton refuse, Seed or Waste	4,625 0
36	Cowdung cakes (manufacturing)	352 8
69	Dammer, Tar or Pitch	858 12
1	Dynamite	50 0
35	Fat and Tallow	506 4
7	Fins (dried)	105 0
26	Fish (do.)	297 0
142	Fireworks (retail)	501 4
77	Do. (wholesale)	1,205 0
1,045	Firewood (retail)	1,239 0
792	Do. (wholesale)	8,961 8
4,278	Carried over ...	38,290 4

Yearly total of License fees recovered during 1915-1916—*contd.*

No. of Licenses issued.	Nature of Trade.	License fees.
		Rs. a.
4,278	Brought forward ...	38,290 4
9	Gas (manufacturing)	450 0
6	Ghee (do.)	56 4
227	Grain (parching)	320 0
51	Gunpowder (retail)	258 12
2	Do. (wholesale)	100 0
221	Hay, Straw and Grass	3,988 4
21	Hides and Skins (dried)...	303 12
55	Do. (raw)	5,856 4
17	Horns and Hoofs	397 8
34	Lime for burning (lime kiln)	1,600 0
698	Matches (retail)	1,023 0
72	Do. (wholesale)	4,476 12
83	Do. (Bengal lights) (retail)	151 8
3	Do. (do.) (wholesale)	57 12
184	Metals (casting)	2,406 4
641	Milk (shopkeepers)	2,446 4
864	Do. (hawkers)	1,573 0
527	Do. (importers)	698 0
714	Noisy Trades	2,623 0
566	Oil (keeping)	8,138 12
2	Paper (manufacturing)	30 0
105	Permits under Section 390	2,625 0
51	Petroleum (non-dangerous) (under Petroleum Act) (kerosine oil) (retail)	149 4
72	Do. (non-dangerous) (under Petroleum Act) (kerosine oil) (wholesale)	1,825 0
58	Do. (dangerous) (under Petroleum Act)	170 4
20	Pottery (manufacturing)	60 0
9,581	Carried over ...	80,074 12

Yearly total of License fees recovered during 1915-1916—*concluded.*

No. of Licenses issued.	Nature of Trade.	License fees.
		Rs. a.
9,581	Brought forward ...	80,074 12
27	Rags	337 8
32	Saltpetre	153 12
26	Smelteries	312 0
21	Soap (manufacturing)	431 4
26	Sugar refineries	631 4
71	Stables for Horses	3,418 12
120	Do. Milch Cattle	7,342 8
152	Do. Bullocks	2,240 0
8	Do. other four-footed animals	8 0
1,947	Timber	15,434 12
100	Turpentine (retail)	483 12
42	Do. (wholesale)	588 12
37	Whistles (steam)	370 0
54	Wool	955 0
.....	Transfer fees	137 0
12,244	Total ...	1,12,919 0

B.

Statement showing the amount of License fees for 1914-1915 recovered in 1915-1916.

No. of Licenses issued.	Nature of Trade.	License fees.
		Rs. a.
2	Aerated Water (manufacturing)	35 0
1	Bakery	15 0
1	Carbide of Calcium (wholesale)	7 8
9	Charcoal...	20 8
3	Cloths in Indigo or other colours Dyeing (hand power)	15 8
25	Coal and Coke	137 8
41	Carried over ...	231 0

Statement showing the amount of License fees for 1914-1915 recovered in 1915-1916—*concld.*

No. of Licenses issued.	Nature of Trade.	License fees.
		Rs. a.
41	Brought forward ...	231 0
1	*Cotton refuse, Seed or Waste*	7 8
5	Firewood (retail)	5 0
15	Do. (wholesale)	42 8
1	Fins (dried)	15 0
3	Fish (do.)	11 4
1	Gas (manufacturing)	12 8
4	Hay, Straw and Grass	11 12
2	Matches (retail)...	2 0
1	Do. (wholesale)	15 0
2	Metal (casting)	6 4
1	Milk (importers)	1 0
4	Do. (shopkeepers)	7 8
5	Oil (keeping)	46 4
5	Permits (renewal)	5 0
1	Stables for Horses	10 0
1	Do. for Milch Cattle	6 4
37	Timber	158 0
...	Transfer fees	9 0
130	Total ...	602 12

Summary of Income for 1915-1916.

No. of Licenses issued.	Official year during which collection was made.	License fees.	Remarks.
		Rs. a.	
130	Income for 1914-15 collected during 1915-16.	602 12	
12,244	Income for 1915-16 collected from 1st April 1915 to 31st March 1916	1,12,919 0	
12,374	Total ...	1,13,521 12	

P. P. VAGH,
Superintendent of Licenses.

MARKETS.

REPORT OF THE SUPERINTENDENT OF MARKETS AND SLAUGHTER HOUSES RECEIVED UNDER HIS No. 964, DATED 14TH JUNE 1916.

SIR,

I have the honour to submit the Annual Report of the Markets and Slaughter Houses for the year 1915-16.

2. During the year under report I proceeded on privilege leave for one month from 24th January to 23rd February 1916, during which period Mr. R. G. Rowbottom, 1st Assistant Assessor acted.

3. The total receipts from the Markets and Slaughter Houses during the year under report amounted to Rs. 5,88,813-8-6 against Rs. 6,01,014-14-3, showing a decrease of Rs. 12,201-5-9. This is chiefly due to a large falling off in the receipts from the sale of rights which is annually auctioned under the supervision of the Chief Accountant. Last year the total realizations from the contractors amounted to Rs. 1,43,004-2-8 while this year it realised Rs. 1,31,701-10-0 showing a deficit of Rs. 11,302-8-8. This was probably due to the War as the traders and bidders were reluctant to advance their bids. Had it not been for the War the total revenue would have shown an increase as was the case in all previous years since I joined this Department in 1911, as will be seen from the following figures :—

Year.	Total Revenue. Rs. a. p.
1910-11 ...	4,88,606 14 5
1911-12 ...	5,45,836 5 9
1912-13 ...	5,81,035 5 2
1913-14 ...	5,85,493 10 6
1914-15 ...	6,01,014 14 3

4. The Food Prices Committee continued to meet every week during the year under report as was the case in the previous year, to settle the prices of grain, ghee, sugar, &c., to which publicity is given. I was a member of the Committee throughout the year, and rendered every possible help in ascertaining the prevailing wholesale and retail prices of different articles. In this connection I am glad to be able to report that as far as the daily market produce was concerned, there was no appreciable rise.

5. Frequent references were received from the Supply and Transport Office from time to time during the year under report as regards quotations of certain articles, and the required information was supplied after making careful enquiries.

I continue to render assistance to the Women's Branch of the War Fund.

6. The following are the contrasted statements marked A to E, showing the receipts in detail under the various heads with the reasons for the increase or the decrease :—

A

Statement of stall rents in detail during the year under report, contrasted with those in the previous four years :—

Names of the Markets.	1911-12.	1912-13.	1913-14.	1914-15.	1915-16.	Difference as compared with 1914-15.		Remarks.
						Increase.	Decrease.	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Colaba Market	412 1 0	386 11 0	533 8 0	403 1 0	365 1 0	.....	38 0 0	
Fort Market	6,900 4 0	6,432 2 0	6,370 6 0	6,365 9 0	6,435 5 0	69 12 0	.....	
A. C. Fruit and Vegetable Market	64,809 9 0	76,461 0 8	75,789 1 0	76,360 7 0	75,978 1 0	.....	382 6 0	
Do. Fish and Mutton Market	8,347 13 0	8,776 4 0	8,670 9 0	8,697 3 0	8,657 5 0	.....	39 14 0	
Do. Mutton (New) Market	2,569 9 6	2,745 7 0	2,869 12 0	2,907 15 6	2,831 8 0	.. ..	76 7 6	
Do. Beef Market	10,752 0 0	11,701 8 0	11,724 0 0	11,724 0 0	11,724 0 0	.. ..	.....	
Godowns	5,197 14 0	6,763 13 0	6,916 0 0	6,994 9 0	7,253 9 0	259 0 0	.....	
Fowl Rooms	2,694 11 0	3,019 2 0	3,166 10 0	3,439 14 0	3,563 4 0	123 6 0	.....	
Bird Shops	1,805 7 0	1,895 7 0	2,168 2 0	2,015 6 0	1,646 15 0	.....	368 7 0	
Erskine Road Fruit and Vegetable Market—								
Do. (Old) Market	27,665 6 6	31,990 8 0	32,719 14 0	31,593 2 0	31,522 6 0	.....	70 12 0	
Do. (New) Market	4,566 15 0	4,969 0 0	5,259 11 0	5,212 3 8	5,638 15 0	426 12 4	.....	
Do. Mutton Market	7,789 5 0	7,867 5 0	8,078 14 0	7,659 15 0	7,907 14 0	247 15 0	.....	
Bhuleshwar Market	14,788 5 0	15,184 9 0	15,320 4 6	14,895 15 0	14,988 15 0	93 0 0	.....	
Pedder Market	1,862 0 0	1,348 15 0	1,464 15 0	1,397 12 0	1,517 14 0	120 2 0	.....	
Kamatipura Market	.....	2,053 13 0	2,472 2 0	2,452 7 0	2,504 6 0	51 15 0	.....	
Pork Market	100 0 0	100 0 0	100 0 0	100 0 0	100 0 0	.....	.....	
DeLisle Road Sheep Market	7,413 8 0	7,500 7 0	7,566 0 0	7,566 0 0	7,566 0 0	.....	.....	
Fergusson Road Market	1,612 10 0	1,668 11 0	1,740 0 0	1,934 13 0	1,951 0 0	16 3 0	.....	
Parbhadevi Road Market	683 6 0	654 14 0	640 7 0	678 1 0	681 15 0	3 14 0	.....	
Elphinstone Road Market	1,317 11 3	1,320 9 0	1,350 13 0	1,473 15 9	1,422 12 6	.....	51 3 3	
Total ...	1,70,787 7 3	1,92,640 1 8	1,94,921 0 6	1,93,872 3 11	1,94,257 1 6	1,411 15 4	1,027 1 9	
Increase over preceding year's rent...	6,537 15 6	21,852 10 5	2,280 14 10	.....	384 13 7	.....	.....	
Decrease below do. do.	.....	.....	.....	1,048 13 7	.....	.....	.....	

7. This statement shows an increase of Rs. 384-13-7 in the stall rents.

B

Statement showing the Squatters' Fees from Municipal Fish Markets, Scale Fees in the Crawford Market compound, and the Fair Ground Rent and the Feeding Fees at the Bandora Slaughter Houses, recovered from the contractors during the year under report contrasted with those in the previous four years :—

Particulars.	1911-12.	1912-13.	1913-14.	1914-15.	1915-16.	Difference as compared with 1914-15.	
						Increase.	Decrease.
	Rs. a.	Rs.	Rs.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Colaba Market	1,150 0	1,225	1,150	1,200 9 0	1,150 0 0	.....	50 0 0
Fort Market	1,950 0	1,750	1,700	1,925 0 0	2,000 0 0	75 0 0	.....
A. C. Beef and Fish Markets	9,500 0	9,000	10,000	10,850 0 0	9,700 0 0	.....	1,150 0 0
Erskine Road Fish Market.	24,400 0	25,500	24,200	25,550 0 0	23,200 0 0	.....	2,350 0 0
Pedder Market	1,825 0	1,925	1,800	1,925 0 0	1,975 0 0	50 0 0	.....
Kamatipura Market ...	.....	1,600	1,450	2,050 0 0	1,925 0 0	.....	125 0 0
Fergusson Road Market...	1,650 0	1,550	1,900	1,900 0 0	1,775 0 0	.....	125 0 0
Parbhadevi Road Market.	800 0	950	1,200	1,250 0 0	1,150 0 0	.....	100 0 0
Elphinstone Road Market.	775 0	825	850	354 2 8	750 0 0	395 13 4	.....
Amount of deposit paid by the Elphinstone Road Market contractor forfeited to the Municipality	.....	...	...	.....	76 10 0	76 10 0	.....
Total Squatters' Fees ...	42,050 0	44,325	44,250	47,004 2 8	43,701 10 0	.....	.....
Scale Fees at the A. C. Market compound ...	7,800 0	5,600	8,500	9,500 0 0	7,500 0 0	.....	2,000 0 0
Fair Ground Rent and Feeding Fees	80,200 0	79,700	88,600	86,500 0 0	80,500 0 0	.....	6,000 0 0
Grand Total	1,30,050 0	1,29,625	1,41,350	1,43,004 2 8	1,31,701 10 0	597 7 4	11,900 0 0
Increase over preceding year's amount	13,441 12	...	11,725	1,654 2 8	.....	.....	.....
Decrease below preceding year's amount	.....	425	...	.....	11,302 8 8	.....	.....

8. From the above statement it will appear that the total realizations from the contractors show a decrease of Rs. 11,302-8-8.

C

Statement showing the Squatters' Fees collected departmentally in the several Municipal Markets during the year under report contrasted with those in the previous year :—

Names of the Markets.	1915-16.	1914-15.	Difference.		Remarks.
			Increase.	Decrease.	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Colaba Market	183 2 0	114 12 0	68 6 0	.....	
Fort Market	150 6 0	72 6 0	78 0 0	.....	
A. C. Fruit and Vegetable Market ...	218 6 0	228 0 0	.....	9 10 0	
Erskine Road Old Fruit and Vegetable Market	3,295 6 0	3,343 8 0	.....	48 2 0	
Bhuleshwar Market	1,793 2 0	1,742 10 0	50 8 0	.....	
Fergusson Road Market	2,190 0 0	2,001 2 0	188 14 0	.....	
Parbhadevi Road Market	2,010 11 0	1,361 12 0	648 15 0	.....	
Elphinstone Road Market	525 13 0	458 3 0	67 10 0	.....	
Total ...	10,366 14 0	9,322 5 0	1,102 5 0	57 12 0	

9. The above statement shows an increase of Rs. 1,044-9-0 over the previous year. This is due to continued efforts having been made in removing the Squatters in the vicinity of the markets and inducing them to take their sittings in the Markets, on payment of the usual fees. The statement in the margin will show the average number of stalls vacant in each quarter during the year under report as compared with those in the previous year.

Names of the Markets.	Total number of stalls.	Average No. of stalls vacant in each quarter in 1915-1916.	Average No. of stalls vacant in each quarter in 1914-15.	REMARKS.
Colaba Market	70	60	57	
Fort Market..	266	89	93	Rent collected half-yearly.
A. C. Fruit and Vegetable Market	880	21	31	
,, Fish and Mutton Market	119	46	44	
,, Mutton (New) Market	68	22	21	
,, Beef Market..	81	1	1	
Godowns	28	....	1	
Fowl Rooms..	29	....	....	Rent collected monthly.
Bird Shops	18	6	3	
Erskine Road Fruit and Vegetable Market, old	451	85	71	
Do. do. do. do. new.	118	46	50	
Erskine Road Mutton Market	114	3d	42	
Bhuleshwar Market	176	14	13	
Pedder Market	40	7	8	
Pork Market	2	....	....	
DeLisle Road Sheep Market	50	....	....	Rent collected half-yearly.
Fergusson Road Market	31	1	....	
Elphinstone Road ,, ...	43	13	18	
Parbhadevi Road	26	4	4	
Kamathipura Market	48	3	3	
Total ..	2,337	466	467	

D

Comparative statement showing the revenue from other sources, comprising the heads "Verifying Weights and Measures, Garden Produce, Price Current, &c." :—

Particulars.	1915-16.	1914-15.	Difference.		Remarks.
			Increase.	Decrease.	
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Verifying Weights and Measures.	1,043 3 0	1,930 5 0	.....	887 2 0	
Garden Produce	2 8 0	11 0 0	.....	8 8 0	
Prices Current	84 6 0	81 13 6	2 8 6	.....	
Sale-proceeds of meat or animals seized under Section 412 ...	58 14 0	40 8 0	18 6 0	.....	
Sale-proceeds of meat vans cast bullocks	528 0 0	600 14 0	.....	72 14 0	
Sale-proceeds of manure ...	66 0 0	108 0 0	.....	42 0 0	
Fees for producing office records, inspection fees, &c.	10 0 0	6 0 0	4 0 0	.....	
Sale-proceeds of copies of Bye-laws	0 6 0	0 12 0	.....	0 6 0	
For the right of removing dead animals from the Slaughter Houses compound	200 0 0	200 0 0	.....	.....	
Right of tapping date trees in Slaughter Houses compound.	.....	5 4 0	.....	5 4 0	
Miscellaneous	7 4 0	3 4 0	4 0 0	.....	
Unclaimed deposit being the balance of subscription collected for the work of erecting a Fountain in the A. C. Market compound	.....	0 4 2	.....	0 4 2	
Total ...	2,000 9 0	2,988 0 8	28 14 6	1,016 6 2	

10. The above statement calls for no remarks.

E

Slaughter fees, Butchers' license fees, &c.

Particulars.	1915-16.	1914-15.	Difference. Increase.	Difference. Decrease.	Remarks.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Slaughter fees	2,28,531 6 0	2,27,091 2 0	1,440 4 0	.....	
License fees	15,128 0 0	16,408 0 0	.....	1,280 0 0	
Ground rent	264 0 0	264 0 0	.....	.....	
Chawl rent	2,904 0 0	2,904 0 0	.....	.....	
Proceeds of blood from the contractor	3,660 0 0	5,160 0 0	.....	1,500 0 0	
Total ...	2,50,487 6 0	2,51,827 2 0	1,440 4 0	2,780 0 0	

11. From the above statement it will appear that there is an increase of Rs. 1,440-4-0 in the amount of slaughter fees. The only appreciable change in the number of animals slaughtered is in sheep and goats, which shows an increase of 29,138 animals, whereas the number of horned cattle slaughtered shows a decrease of 4,028 animals. This depended more or less on the commissariat requirements for expeditionary forces for which live horned cattle were supplied by the contractor direct for slaughter at sea during the year under report. Whereas in the previous year, arrangement was made for the supply of meat in large quantities. This accounts for the decrease in the slaughter of cows and bullocks. The decrease of Rs. 1,280 in License fee is chiefly due to Mr. Wolfe's license at Bandra for the collection of guts, not having been renewed during the year under report, he being a German. The amount of License fee was Rs. 1,500 per annum. The marginal statement shows the number of animals slaughtered during the year under report as compared with those in the previous year.

Description of animals.	Number slaughtered in 1915-16.	Number slaughtered in 1914-15.	Increase.	Decrease.
Buffaloes	8,871	8,574	...	203
Cows, bullocks and calves	63,229	57,054	...	3,826
Sheep and goats	645,275	616,137	29,138	...
Pigs slaughtered at the Slaughter House ...	1,138	979	159	...
Do. do. at private premises... ...	24	23	1	...
Sucklings	124	124	...	...

12. The total receipts under all the heads shown in the foregoing statements A to E amount to Rs. 5,88,813-8-6 against Rs. 6,01,014-14-3, showing a decrease Rs. 12,201-5-9 already noted in para. 3.

13. In the statement F is shown the financial results of the working of each market during the year under report, that is gross receipts and expenditure of each market and the percentage on the original cost of the market building plus the cost of any addition made to the building during the year. The percentage on the total income and expenditure of all the markets comes to 8·74 per cent. which is very satisfactory.

F

Names of the Markets.	Original Cost.	Addition, if any, made during the year.	Total Cost.	Gross Receipts.	Expenditure.	Net Receipts.	Percentage on the Cost.	Remarks.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs.	
Colaba Market	93,393 0 0	.....	93,393 0 0	1,698 3 0	1,607 15 3	90 3 9	·09	
Fort do.	1,22,500 0 0	.....	1,22,500 0 0	8,585 11 0	3,781 11 8	4,803 15 4	3·91	
Crawford Market	7,11,704 13 6	6,245 2 8	7,17,949 15 8	1,29,073 0 0	32,079 10 2	96,993 5 10	13·50	
Erskine Road Market	5,74,125 8 6	601 13 0	5,74,727 5 6	71,364 9 0	16,389 4 8	55,175 4 8	9·60	
Bhuleshwar do.	9,67,613 1 9	.....	9,67,613 1 9	16,782 1 0	3,385 9 5	13,396 7 7	3·64	
Pedder do.	52,630 0 0	.....	52,630 0 0	3,492 14 0	3,492 14 10	*Loss* 0 0 10	*Loss* ·00009	
Pork do.	5,500 0 0	.....	5,500 0 0	100 0 0	336 13 1	*Loss*236 13 1	*Loss* 4·29	
DeLisle Road Sheep Market ..	25,000 0 0	.....	25,000 0 0	7,566 0 0	3,197 15 10	4,368 0 2	17·47	
Fergusson Road do.	22,669 0 0	.....	22,669 0 0	5,916 0 0	1,583 1 8	4,332 14 4	19·10	
Parbhadevi Road do.	18,894 15 1	.....	18,894 15 1	3,842 10 0	2,896 6 1	946 3 11	5·005	
Elphinstone Road do.	29,266 15 4	.....	29,266 15 4	2,775 3 6	2,887 6 4	*Loss*112 2 10	*Loss* ·38	
Kamathipura do.	50,691 0 0	.....	50,691 0 0	4,429 6 0	2,231 7 4	2,197 14 8	4·33	
Total ..	20,74,089 5 3	6,846 15 8	20,80,935 5 4	2,55,825 9 6	73,870 4 2	1,82,304 6 1	....	
					Deduct Loss ..	349 0 9		
					Net Receipts ..	1,81,955 5 4		

14. During the year under report, 8,402 buffaloes, 56,418 horned cattle, and 735,486 sheep and goats, were brought to the Bandora fair ground for examination and disposal, out of which number, 54 buffaloes, 608 horned cattle and 22,047 sheep and goats were found, on inspection, to be unfit for slaughter and were consequently rejected, *vide* the following comparative statement. The remainder were either slaughtered for the markets or were otherwise disposed of, the details of which are shown in Appendix **A** :—

Year.	Animals brought to the fair ground.			Animals rejected.		
	Buffaloes.	Horned Cattle.	Sheep and Goats.	Buffaloes.	Horned Cattle.	Sheep and Goats.
1915–16 ...	8,402	56,418	735,486	54	608	22,047
1914–15 ...	8,627	59,795	638,468	39	1,166	15,991

15. On inspection of the carcasses at Bandora during the year under report, 772 mutton carcasses, and 59 beef carcasses were found diseased and cystic, and were consequently destroyed.

16. The fines inflicted by the Presidency Magistrates for the infringement of the provisions of the Municipal Act and the Bye-laws pertaining to the Markets, during the year under report, amounted to Rs. 1,258-6-0 against Rs. 1,320 in the previous year. This total amount includes fines of Rs. 1,145-6-0 for the importation of contraband meat, (Section 412 (1), the balance of Rs. 113 being for infringing other sections of the Act.

17. Steps were taken, as usual, to destroy articles of food exposed for sale in the different markets that were found unwholesome. The following table shows the quantity of the various articles destroyed during the year under report:—

Meat (Bandora and Bombay)	10,114	lbs.
Fish	245,192	,,
Fruit	11,826	,,
Vegetable	4,238½	,,
Total ...	271,370½	lbs.

18. The quantity of contraband meat seized and destroyed during the year under report was 3,596 lbs. against 3,148 lbs. in the previous year.

19. The supplies of mutton, beef, fish, fruit, vegetable, &c., were as usual up to the mark.

20. During the year under report, the question of introducing a uniform system of Weights and Measures was under the consideration of the Commissioner and Government. A proposal to amend the Private Market Bye-laws was submitted so as to compel the dealers in the Private Markets to get their Weights and Measures stamped as is the case in the Municipal Markets. This amendment, I understand, has now been sanctioned by Government.

21. I must again urge the importance of putting our Markets and Slaughter Houses in a sanitary condition. They are at present in anything but a satisfactory state and when funds permit I trust that the handsome revenue from the Markets and Slaughter Houses will be devoted entirely to improvements and not diverted to other purposes.

22. My staff worked satisfactorily.

I have the honour to be,

Sir,

Your most obedient servant,

L. W. MICHAEL,

Superintendent of Markets.

APPENDIX A.

STATEMENT showing the number of Animals slaughtered, removed for private slaughter, etc., during the year 1915-1916.

Description of Animals.	Months.												Total number of Animals.	Total amount of slaughter fees.	REMARKS.
	April 1915.	May 1915.	June 1915.	July 1915.	August 1915.	Sept. 1915.	Oct. 1915.	Nov. 1915.	Dec. 1915	Jan. 1916.	Feb. 1916.	March 1916.			
														Rs. a. p.	
Buffaloes	567	607	671	899	885	775	764	717	711	621	598	556	8,371	83,710 0 0	
			P. S. 5										**P. S. 5**	**P. S. 50**	
Cows	3,831	3,638	3,455	3,208	3,159	2,794	2,732	2,717	2,933	3,475	3,255	3,759	38,446	28,834 8 0	
Bullocks	954	991	843	904	1,078	953	900	1,015	1,191	1,401	1,343	1,356	12,929	9,696 12 0	
Calves	201	180	299	271	223	184	213	210	254	281	281	261	2,854	2,143 8 0	
Sheep, Goats, &c., for Bombay	42,882	44,747	46,058	48,136	46,133	49,979	50,047	50,612	53,404	56,257	55,129	57,519	600,903	75,112 14 0	
Do. do. Mahim	1,599	1,874	1,911	1,832	1,686	1,857	1,826	1,892	2,481	2,317	2,264	2,358	23,897	1,493 9 0	
Do. do. Bandora	1,512	1,766	1,641	1,623	1,674	1,959	1,666	1,611	1,833	1,818	1,640	1,733	20,475	1,279 11 0	
Pigs at Arthur Road	94	130	126	93	88	84	74	73	125	86	74	91	1,138	1,138 0 0	
Piglings do.	5	...	6	2	1	2	1	...	...	...	...	...	17	4 4 0	
Pigs (Private Slaughter)	4	3	...	...	2	...	1	5	2	2	5	...	24	48 0 0	
Piglings (do.)	14	8	9	5	...	3	17	19	7	5	16	4	107	26 12 0	
Live horned cattle brought to Bombay ...	80	66	131	131	81	698	76	60	24	66	93	47	1,556	7,780 0 0	
Live Sheep, Goats, &c., brought to Bombay	885	960	566	907	804	958	2,040	1,349	739	871	765	802	11,646	5,823 0 0	
Do. (Private Slaughter) ...	4	2	...	6	...	...	5	5	2	...	6	...	30	15 0 0	
Live Sheep and Goats, removed by De-Lisle Road Sheep Market Phadkarees...	1,280	1,216	1,381	2,352	2,434	1,903	3,841	977	1,448	1,718	1,624	2,574	23,751	11,375 8 0	
												Total ...	745,149	2,28,531 6 0	

The figures in (Block Type) show the number of animals slaughtered in Bombay by private individuals within the meaning of Section 403 (2) (c) of the Act.

L. W. MICHAEL,
Superintendent of Markets.

EDUCATIONAL.

REPORT OF THE SCHOOLS COMMITTEE FORWARDED BY THE COMMITTEE'S SECRETARY UNDER HIS NO. 2390, DATED 6TH JULY 1916.

THE SCHOOLS COMMITTEE'S OFFICE,
BOMBAY, *12th June* 1916.

REPORT ON THE ADMINISTRATION OF THE SCHOOLS COMMITTEE FOR THE YEAR 1915-1916.

The Schools Committee.

The undermentioned gentlemen were the members of the Committee at the commencement of the official year:—

The Hon. Mr. C. H. Setalvad, B.A., LL.B., *Chairman.*
The Hon. Sir Ibrahim Rahimtoola, Kt., C.I.E.
The Hon'ble Mr. D. E. Wacha.
Rao Bahadur Dhakji Cassinathji.
Kazi Kabiruddin, Esq., Bar.-at-Law.
N. V. Mandlik, Esq., B.A., LL.B.
Dr. Jehangir J. Cursetji, M.D., L.R.C.P., L.R.C.S.
Ramchandra Bhasker Mantri, Esq., J.P.

Of these gentlemen, Rao Bahadur Dhakji Cassinathji and Kazi Kabiruddin, Esq., Bar.-at-Law, being the two senior members, retired from the Board in December 1915, under Section 39 (3) of the Bombay Municipal Act and the vacancies thus caused were filled by the Corporation electing Dr. Nadirshaw H. E. Sukhia, L.M. & S., L. V.Sc., F.R.S.I. (London), J.P., and Dr. Moreshwar Chintaman Javle, J.P. The two retiring members had served on the Board for 14 and 13 years respectively and the Committee placed on record its high appreciation of the very valuable and devoted services rendered by them during this long period. The Committee appointed them both Official Visitors of the Municipal Schools for life.

The term of the office of the Chairman expiring with the calender year, the Hon'ble Mr. C. H. Setalvad was unanimously re-elected in January 1916.

Mr. D. G. Padhye, M.A., continued to hold the office of the Secretary of the Committee throughout the year.

General Summary.

A steady and substantial progress all round marked the year's administration, greater attention being paid to development and consolidation, rather than mere expansion. The chief features may thus be briefly summarised:—

(1) The total number of schools increased from 179 to 183. (2) The total expenditure amounted to Rs. 5 02,173 towards which the Municipal Fund contributed Rs. 4,62,000, and the fees collected Rs. 37,681 as against Rs. 4,77,963, Rs. 4,17,864 and Rs. 32,425, the corresponding figures for the previous year. (3) There was a very highly satisfactory increase in the number of pupils, the number rising from 18,046 on 31st March 1915 to 21,669 on 31st March 1916. This was a 20 per cent. increase and may be taken as an index of the increased popularity of the Municipal Schools. (4) To ensure better supervision, the Superintendents' Department was thoroughly reorganized, the three sets of the Municipal Schools (Marathi, Gujerati and Urdu) being each placed in an independent charge, the Marathi Superintendent being also given an assistant. The new change together with a consolidation of old orders and fresh disciplinary instructions brought on greater efficiency. (5) Particular attention

was paid to the improvement of the location of the schools and every possible opportunity for it availed of. 20 schools were removed to new and better premises during the year and additional accommodation rented for 26 schools with the result that about 12 of these 46 schools may now be regarded as accommodated very well and some 20 more in a fairly satisfactory manner, regard being had to the conditions of costly and congested Bombay. At the end of the year over 40 out of the total of 163 schools located in rented houses were as the result of these efforts, well housed and about a hundred fairly well. (6) One more Municipal building being the 4th of those built as per the 10 lakhs joint Government and Municipal expenditure programme, was completed and occupied this year. (7) To cope with the great increase in the number of pupils and secure greater efficiency of teaching, the number of ordinary teachers was increased from 702 to 803 during the year. To special teachers there was the addition of one Music teacher and one Sewing mistress. (8) Sustained and varied efforts were made to secure a higher percentage of trained teachers. A dozen trained teachers were secured as new employes. 59 persons (male and female) were maintained as the Committee's stipendiaries at the Poona and the Ahmedabad Training Colleges. From amongst these and other teachers serving in the schools, 67 obtained Training College Certificates. One Gujerati and one Urdu Male Teachers' Training Class and one Urdu Lady Teachers' Training Class were opened with six experienced senior teachers at their head to enable the Municipal school teachers to pass the Entrance test as well as the Certificate examinations of the Government Training Colleges. About 50 teachers took benefit of these classes; 20 of them passing the examinations mentioned. (9) A policy of broadening the outlook of the teachers and of fostering in them, greater interest in their work was steadily pursued. Every reasonable demand from the Headmasters or Mistresses for additional teachers, or school equipment or increase in the monthly contingency grant, etc., was promptly responded to. The material equipment of several schools was improved and a number of useful books and magazines placed anew at their disposal. Some new charts and pictures useful for "Object Lessons" were also purchased. (10) The improvement of teaching formed the special concern of the Superintendents who themselves conducted the Annual Examinations of all the Schools. In the Government 4th Standard Examination, 1,039 passed out of 1,437 from the Municipal Schools—a highly satisfactory result. It may be mentioned that out of the 4 Middle school scholarships, open to competition by all Bombay Schools, one was carried off by the Girgaum Marathi Boys' School and another by the Chhatrisarang Urdu School. Two of the Mary Carpenter Scholarships were won by two other Municipal Schools. Arrangements were completed to introduce the new Science curriculum recently sanctioned by the Educational Department in our 4 A. V. Schools. (11) The education of girls and of the children of the poorer classes formed the object of special solicitude. In localities where separate Schools for girls do not exist, special arrangements were made for their admission and instruction in the Boys' Schools. For the benefit of the poorer classes, the percentage of free studentship was raised from 15 to 30 in 8 of the ordinary schools. The special Nirashrit Schools (Depressed Classes) and Mill-hand Boys' Schools numbered 15 with 1,641 pupils. Four new scholarships were added during the year to the 41 special scholarships given by the Committee, 27 of them being for girls, 9 for depressed classes and 9 for Mahomedans. Rs. 1,290 were spent in paying these scholarships, besides Rs. 360 spent in payment of the Middle School Scholarships. Rs. 4,364 were spent in awarding prizes, the latter including about Rs. 345 the interest on the Prize Funds held in Trust by the Committee. (12) The systematic Medical examination of all the School children begun last year was completed during the year under review at the hands of 3 qualified Medical persons one of them being a lady. Elaborate reports have been presented on the subject. Intimations of the results have been sent to the parents or guardians. The question of a permanent establishment for Medical Examination is under consideration. (13) Rs. 58,781 were given as Grant-in-aid to 132 schools during the year. This includes the 5 per cent. "Supplementary Grant" sanctioned over and above the ordinary grant in the case of 8 Girls' Schools. The figure of the grants paid for the last year was Rs 58,642. (14) The policy of helping private educational institutions of a philanthropic or non-commercial character, by lending them *gratis* the use of Municipal school premises, was freely expanded, the number of such institutions at the end of the year being 31. Of these 16 were Night Schools having about a thousand pupils on their rolls.

Municipal Schools and Attendance.

The following table gives a summary of the total number of Municipal Schools of all descriptions, with the aggregate number of pupils thereat for the past two years. The total increase in the number of schools was 4, the number of old schools closed or amalgamated being 4 and that of schools opened newly eight. The new schools comprised three

Marathi Girls', one Gujerati Girls' and one Urdu Girls', one Marathi Boys', one Gujerati Boys', and one Gujerati Nirashrit Boys' School. The schools closed were 1 Marathi Boys', 2 Gujerati Boys' and 1 Guzerati Girls'. It is the Girls' schools that monopolise all the net increase :—

Classes of Schools.	Municipal.			
	1915-1916.		1914-1915.	
	Schools.	Pupils.	Schools.	Pupils.
Marathi.				
Day Schools—				
Middle Schools	3	270	3	291
Primary for boys	57	9,130	57	7,467
Do. for girls	23	2,767	20	2,225
Total of Marathi Schools ...	83	12,167	80	9,983
Gujerati.				
Day Schools —				
Middle Schools	1	66	1	69
Primary for boys	31	3,548	32	2,609
Do. for girls	17	1,846	17	1,566
Total ...	49	5,460	50	4,244
Night Schools	1	28	...	...
Total of Gujerati Schools ...	50	5,488	50	4,244
Urdu.				
Day Schools—				
Middle Schools	...	...	...	...
Primary for boys	41	3,276	41	3,209
Do. for girls	6	655	5	522
Total ...	47	3,931	46	3,731
Night Schools	3	83	3	88
Total for Urdu Schools ...	50	4,014	49	3,819
Grand total of Marathi, Gujerati and Urdu Schools ...	183	21,669	179	18,046

N.B.—The 4 Middle schools shown separately above are attached to the corresponding primary schools, the two being in each case under one head and one management.

The aggregate number of 21,669 pupils shown above was the number on the rolls on the 31st March 1916. The highest number reached during the year was about 22,500 in February 1916. The monthly average on the rolls was 20,221 as against 17,577 for the previous year. The average monthly attendance was 15,934 as against 13,527. It will be observed that the rise was the greatest in the Marathi Schools and only nominal in the Urdu Schools. It is interesting to note that whilst the rise in the rolls of the Municipal Schools was 20 per cent. that on the rolls of the Aided Schools, in which class are comprised almost all the better conducted private schools of the City, was only 8 per cent. (from 14,358 to 15,536).

Boys and Girls.

The total number of Municipal Boys' Schools including the four Anglo-Vernacular Schools and the four Night Schools was, as shown in the above table, 137 and the number of Girls' Schools 46. The total attendance, in the former, was 16,401 and in the latter 5,268.

It may be mentioned however that in several of the Boys' Schools, particularly in the Urdu Schools, girls are allowed to attend and some Girls' Schools have on their rolls boys too. Thus the 16,401 pupils of the 137 Boys' Schools consisted of 14,719 boys and 1,682 girls and the 5,268 pupils of the 46 Girls' Schools consisted of 5,150 girls and 118 boys.

Finances.

The opening balance of the "School Fund" was Rs. 37,386. The total receipts amounted to Rs. 5,01,082 as against Rs. 4,51,807 for the previous year. The contribution from the General Municipal Fund was for the year 4,62,000 as against Rs. 4,17,864. The income from fees rose from 32,425 in 1914-15 to Rs. 37,681 in the year under review. The Trust Funds and other sources yielded about Rs. 1,400.

The total expenditure for the year was Rs. 5,02,173 being Rs. 24,210 in excess over that for the year 1914-15. The increase was chiefly due to (1) the employment of a hundred additional teachers ; (2) the securing of improved accommodation for the schools ; (3) the re-organization of the Superintendents' Department ; and (4) the opening of 4 new schools and three Teachers' Training Classes, etc.

The year closed with a balance of Rs. 36,295.

The average cost per pupil (including the cost of the supervising establishment) was Rs. 20·5 as against Rs. 23·2 for the last year. The decrease in the cost was mainly the result of the steady increase in the number of pupils. The cost was distributed as under :—

Teaching	Rs.	12·3
House rent	„	5·6
Miscellaneous...	„	2·6
Total ...	Rs.	20·5

Appendix "A" gives the details of the actual income and expenditure under the various heads, and Appendix "B" the Balance Sheet.

Appendix C gives the figures for Aided Schools and E for other schools.

Appendix F shows the progress from year to year of schools, pupils and expenditure under the Schools Committee's management.

Inspection and Supervision.

There was a thorough re-organization of the Supervising staff made at the very commencement of the year. The three sets of Municipal Schools, Marathi, Gujerati and Urdu, were each placed in the independent charge of a separate Superintendent all working under the general supervision of the Secretary. An Assistant Superintendent was appointed for the Marathi Schools, the total number of which nearly equals that of the Gujerati and Urdu Schools. Messrs. A.R. Bhaiji, B.A., and H.G. Anjaria, M.A., LL.B., respectively held the offices of the Superintendent, Urdu Schools and Superintendent, Gujerati Schools, during the year under report. Mr. B. H. Damle, the capable Headmaster of the Girgaum Marathi Boys' School, was at the commencement of the year the acting Superintendent of the Marathi Schools. In June 1915 the Committee selected, after a personal interview, from a large number of applicants, Messrs. K. B. Padgaokar, B.A., Headmaster, Savantwadi High School and B. R. Manerikar, B.A., senior teacher, Malvan High School, for the posts of the Superintendent and the Assistant Superintendent, Marathi Schools, respectively. The former took charge of his office in August, while the latter joined his appointment in July 1915. The choice has proved a happy one. All the four Superintendents have worked with commendable zeal and in cordial co-operation with the Secretary. In addition to constant visits to the schools they personally conducted the Annual Examinations of the boys and girls of all the Schools in their respective charge and they rendered substantial help to the Government Deputy Educational Inspector in conducting the public IV Vernacular Standard Examination of all Bombay schools. Mention has to be made of the very creditable manner in which Mr. B. H. Damle discharged his duties as acting Superintendent, which office he held for 18 months.

School Buildings.

The location of schools in suitable buildings is a very vexed and complicated problem in Bombay. But few houses are suitable for school purposes and it is very difficult in crowded localities to secure even tolerably sanitary premises. The school buildings owned by the Municipality numbered 14 at the commencement of the year, including 3 schools built in accordance with the programme of 10 lakhs joint Government and Municipal expenditure, adopted in 1908. One more building, that for the Khetwadi Marathi Anglo-Vernacular School, was added to the latter 3 during the year. The bulk of the Municipal schools have thus to be accommodated in such hired buildings as are available in the localities concerned and can be engaged with the limited funds in hand. A very sustained effort was made during the year to locate well as many schools as possible. New premises were secured for 20 schools and additional accommodation was rented for 26 more schools. About a dozen of these 46 schools, *e. g.*, the Mazagaon Marathi Boys', the Girgaum Marathi Schools, the Ghodapdeo Marathi Boys', the Cheulwadi Marathi Boys', the Kika Street Gujerati Boys' and Girls', the Dadar Kumbharwada Marathi Boys', the Byculla Marathi Girls', the Anantwadi Gujerati Boys', the Colaba Urdu Boys', the Rangari Street Gujerati Boys', the Mandvi Gujerati Boys' Schools may be now said to be satisfactorily accommodated and about 20 more fairly so, regard being had to the difficulties that have to be overcome in getting good houses in overcrowded Bombay.

Teachers and Training Classes.

The following table shows the total number of ordinary teachers for the year under review and the previous year, the trained and the untrained teachers being classified separately :—

Classes of Teachers.	Number of Teachers.								
	Trained			Untrained.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Marathi	172	63	235	135	32	167	307	95	402
Gujerati	55	29	84	81	48	129	136	77	213
Urdu	21	...	21	145	22	167	166	22	188
Total ...	248	92	340	361	102	463	609	194	803

The figures for 1914-15 were :—

Marathi	158	47	205	114	28	142	272	75	347
Gujerati	42	25	67	69	39	108	111	64	175
Urdu	14	...	14	142	24	166	156	24	180
Total ...	214	72	286	325	91	416	539	163	702

The increase in the number of teachers during the year was 101 and was due to the rise in the number of pupils as also to the special exigencies of particular schools, which sometimes require a relaxation of the general principle hitherto followed of allotting one teacher for 30 pupils. The policy of giving preference to trained teachers even for provisional or acting appointments was initiated during the year, and a dozen trained teachers were thus secured. There were at the beginning of the year 22 Special Teachers,—6 for Drawing, 4 for Drill, 3 for Music, 2 for Knitting and 7 (mistresses) for Sewing. One more Music teacher and one Sewing mistress were added during the year.

The number of persons under training at the Poona and the Ahmedabad Training Colleges with stipends paid by the Committee was at the end of the year 59. All of them were reported to be making fair progress. The total number of Municipal teachers who appeared during the year from the Colleges or privately at the Training College examinations and obtained certificates was 67

Training Classes.

To supplement the deputation of the Schools Committee's stipendaries to be trained at the Government Training Colleges (for which the maximum fixed is 75 and the tests of admission are high), the Committee opened during the year under review three Training Classes—one for Gujerati Male teachers, one for Urdu Male teachers and a third for Urdu lady teachers. At their head are placed six of the most experienced Municipal teachers and they coach up the teacher-students for the Vernacular Final and the First year Training Certificate examinations. Even in the first year of their existence from these classes, 8 Gujerati and 8 Urdu teachers passed the Entrance or the Vernacular Final test, 2 Urdu teachers passed the First year training certificate examination and 2 Urdu lady teachers their Fourth standard examination.

For similar purposes the Nagpada Urdu school was made a full vernacular course school, the scholarships given to it being raised from 6 to 9. From this school, 4 passed the Urdu Vernacular Final Examination of the year. This school is the Urdu counterpart of the Vithalwadi Marathi Boys' School, from which 5 passed the Vernacular Final examination during the year.

Miscellaneous.

Deaths and retirements.

There were 20 deaths among the teachers. Six of them, *viz.*, P. V. Vaidya, P. A. Kelkar, Bapalal Jabhai, N. V. Kulkarni, Fateh Mahomed Yakta and Bai Rahiabi were heads of schools with long service to their credit. Only one teacher, *viz.*, Bai Manibai Pranshanker, Headmistress, Bhuleshwar Girls' School, retired during the year. She had served the Department very well for 35 years.

Endowments and donations.

No progress was made during the year in regard to the Bai Valibai Donation and the Parmanand Raja Bequest, in regard to the latter it may be mentioned that since the closing of the year under review, Rs. 11,860 (principal and interest) have been recovered as the result of High Court proceedings. The Trustees of the "S. M. Edwárdes Memorial Fund" paid during the year Rs. 216 for their special scholarships. A notable donation was made by the Municipal Marathi Primary Teachers' Association of Rs. 1,100 in Government Promissory Notes for founding a scholarship and a prize in the name of Mr. R. S. Taki, who was for a long time and with great honour connected with the Primary schools of Bombay as Deputy Educational Inspector.

A number of minor donations were made for which the Committee gives its best thanks.

D. G. PADHYE,

Secretary, Schools Committee

Appendix A.

Statement of Actual Income and Expenditure of the "School Fund" for the year 1915-1916.

Receipts.	Amount.	Expenditure.	Amount.
	Rs. a. p.	A.—SCHOOLS.	Rs. a. p.
1. Balance on the 1st of April 1915	37,386 11 1	1. Head Masters and Teachers	2,55,666 6 7
		2. Servants	9,793 9 10
2. Fees from Municipal Schools	57,681 12 0	3. Rent	1,20,192 5 0
		4. Cost of Class Books	1,784 7 7
		5. School Furniture	7,694 9 0
		6. Prizes	4,919 4 6
3. Contribution from the General Municipal Fund..	4,62,000 0 0	7. Contingencies and Miscellaneous	17,686 8 3
		8. Scholarships in Schools	360 0 0
		9. Stipends of Students under training as Vernacular Teachers	6,049 15 1
4. Interest on Endowments or Investments ...	1,396 5 0	10. Superintendent's Establishment	11,547 8 7
		11. Grants-in-Aid to Primary Schools	58,780 15 0
		12. Library and Museum	1,236 7 4
5. Government Grants-in-Aid towards Buildings ...	.....	13. Medical Inspection	1,256 8 11
		B.—BUILDINGS.	
6. Miscellaneous	4 8 0	1. Municipal Original Works	.....
		2. Repairs to Municipal School Houses	6,111 1 8
		Balance on 31st March 1916	36,295 8 4
Total Rs. ...	5,38,469 4 1	Total Rs. ...	5,38,469 4 1

THE SCHOOLS COMMITTEE'S OFFICE,
BOMBAY, 12*th June* 1916.

D. G. PADHYE,
Secretary, Schools Committee.

Appendix B.

Balance Sheet of the "School Fund" for the year 1915-1916.

Liabilities.	Rs. a. p.	Assets.	Rs. a. p.
To Deposit Account	944 2 2	By Bank of Bombay, Government, &c., Paper Deposit Account	5,100 0 0
„ Hurkisondas Brijlal Prize Fund—			
Principal ... ... Rs. 500 0 0		„ Bank of Bombay, Surplus Cash, Government, &c., Paper Deposit Account	24,109 6 0
Interest ... ... „ 17 6 5	517 6 5	„ Bank of Bombay on account of Securities from Contractors	2,100 0 0
„ Dr. Blaney Prize Fund—			
Principal ... ... Rs. 1,000 0 0		„ Advance Account—	
Interest ... ... „ 44 4 5	1,044 4 5	To the Secretary ... ... Rs. 180 0 0	
„ Madhavdas Raghunathdas Prize Fund—		„ Superintendent—	
Principal ... ... Rs. 500 0 0		Marathi ... ... Rs. 80 0 0	
Interest ... ... „ 23 4 0	523 4 0	Gujerati ... ... „ 20 0 0	
„ Jivcore Lallubhai Scholarship, &c., Fund—		Urdu ... ... „ 20 0 0	
Principal ... ... Rs. 1,000 0 0			200 0 0
Interest ... ... „ 40 6 0	1,040 6 0	„ Advances, Miscellaneous	60 0 0
„ Bachoobai S. Bengalee Prize Fund—			
Principal ... ... Rs. 1,000 0 0		„ Actual Cash Balance—	
Interest ... ... „ 71 8 2	1,071 8 2	In Bank of Bombay ... Rs. 12,762 13 4	
„ R. S. Taki Scholarship and Prize Fund—		„ Office Treasury .. ... „ 608 9 6	
Principal ... ... Rs. 1,108 11 0			13,371 6 10
Interest ... ... „ 17 2 4	1,125 13 4		
„ Paper Deposits from Contractors	2,272 8 0		
„ Donations for Training Urdu Teachers	2 0 0		
„ N. S. Bengalee Donation	4 0 0		
„ Cutchi Memon Scholarship	28 0 0		
„ "S. M. Edwardes" Scholarship Fund	12 0 0		
„ Income and Expenditure Account—			
Balance on 31st March 1916	36,295 8 4		
Total Rs. ...	44,940 12 10	Total Rs. ...	44,940 12 10

THE SCHOOLS COMMITTEE'S OFFICE,
BOMBAY, 12*th June* 1916.

D. G. PADHYE,
Secretary, Schools Committee.

Appendix C.

The Aided Schools.

The following table shows the number of Aided Schools with the attendance thereat. The amount of Grant paid to them from the "School Fund" during 1915-16 was Rs. 58,780 as against Rs. 58,642 for the previous year :—

Class of Schools.	Aided.			
	1915-1916.		1914-1915.	
	Schools.	Pupils.	Schools.	Pupils.
Marathi.				
Day Schools—				
Primary for boys	45	4,909	47	4,545
Do. for girls	15	1,605	15	1,573
Total	60	6,514	62	6,118
Night Schools	11	202	11	174
Total of Marathi Schools ...	71	6,716	73	6,292
Gujerati.				
Day Schools—				
Primary for boys	32	4,297	34	3,888
Do. for girls	19	3,004	19	2,887
Total	51	7,301	53	6,775
Add—Night Schools	2	133	2	136
Total of Gujerati Schools ...	53	7,434	55	6,911
Urdu.				
Day Schools—				
Primary for boys	6	1,135	6	937
Do. for girls	1	215	1	196
Total of Urdu Schools ...	7	1,350	7	1,133
Tamil Day School	1	36	1	22
Grand Total of Marathi, Gujerati, Urdu and Tamil Schools ...	132	15,536	136	14,358

The Schools Committee's Office,
Bombay, 12*th June* 1916.

D. G. PADHYE,
Secretary, Schools Committee.

Appendix D.

Race of Pupils.

The number of pupils in the Municipal and Aided Schools according to their race was as under:—

Race.	1915-1916.			1914-1915.		
	Municipal.	Aided.	Total.	Municipal.	Aided.	Total.
Europeans and Eurasians	...	2	2	...	...	...
Portuguese and Native Christians	104	381	485	97	435	532
Hindus	16,664	8,179	24,843	13,389	7,318	20,707
Mahomedans	4,571	2,799	7,370	4,227	2,396	6,623
Buddhists	...	...	...	...	...	...
Parsis	223	3,659	3,882	246	3,683	3,929
Others	107	516	623	87	526	613
Total ...	21,669	15,536	37,205	18,046	14,358	32,404

THE SCHOOLS COMMITTEE'S OFFICE,
BOMBAY, 12*th June* 1916.

D. G. PADHYE,
Secretary, Schools Committee.

Appendix E.

The following is a rough estimate of the number and attendance in un-recognized and unaided primary Schools in Bombay :—

Classes of Schools.	Schools.	Pupils.
MARATHI.		
Primary for boys	27	1,090
Do. for girls	1	54
Total ...	28	1,144
GUJERATI.		
Primary for boys	39	2,081
Do. for girls	11	1,543
Total ...	50	3,624
URDU.		
Primary for boys	105	2,605
Do. for girls	1	71
Do. night school	4	58
Total ...	110	2,734
Grand Total ...	189	7,502

THE SCHOOLS COMMITTEE'S OFFICE,
BOMBAY, 12*th June* 1916.

D. G. PADHYE,
Secretary, Schools Committee.

Appendix F.

THE PROGRESS OF PRIMARY EDUCATION IN BOMBAY.

A. *Under the Joint Schools Committee.*

Year.	No. of Schools.	No. of pupils.	Total expenditure.
			Rs.
1890-91 being the first year of the Joint Schools Committee	62	6,134	81,861
1908-09 being the last year	102	10,314	2,54,888

B. *Under the (Municipal) Schools Committee from year to year.*

1909–10	114	11,559	2,88,202
1910–11	127	13,255	3,30,890
1911–12	142	15,861	3,38,263
1912–13	160	16,746	3,78,088
1913–14	174	18,846	4,37,815
1914–15	179	18,046	4,77,963
1915–16	183	21,669	5,02,173

THE SCHOOLS COMMITTEE'S OFFICE,
BOMBAY, 12*th June* 1916.

D. G. PADHYE,
Secretary, Schools Committee.

MUNICIPAL OFFICES,
BOMBAY, *30th May* 1916.

From

THE MUNICIPAL AUDITORS,
BOMBAY.

To

THE MUNICIPAL SECRETARY,
BOMBAY.

SIR,

In accordance with Section 137 of the Bombay Municipal Act, 1888, we have the honor to forward herewith the three Appendices, marked A, B and C, containing the result of the scrutiny of the outstanding Bills of Rates and Taxes, which were in the hands of Ward Clerks and in the Office of the Assessor and Collector on the 31st March 1916.

2. These Appendices form part of the Annual Report on the Municipal Accounts for the year 1915-16 now under preparation.

We have the honour to be,
Sir,
Your most obedient servants,

BHUKHANDAS B. DESAI,

SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

Appendix A.

STATEMENT of Outstanding Bills of Rates and Taxes in the hands of the Ward Clerks and in the office of the Assessor and Collector on the 31st March 1916.

Wards.	No. of Bills.	Amount.									Grand Total.	REMARKS.
		On value.				Compounded or special.			Tax on Vehicles and Animals.	Meter Hire.		
		General Tax.	Water Tax.	Halálkhore Tax.	Total.	Compound Water Service.	Special Halálkhore Service.	Water charged by Meter.				
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
A	137	4,242 8 4	1,436 11 1	977 10 6	6,656 13 11	.....	.....	253 7 7	755 0 0	.....	7,665 5 6	
A—Government, Port Trust and Railways.	60	3,701 13 2	141 7 0	235 10 3	4,078 14 5	.....	592 4 6	2,529 14 0	177 0 0	.....	7,378 0 11	
A—City Improvement Trust...	35	692 10 3	832 13 2	221 10 6	1,747 1 11	0 8 0	.....	1 8 0	.....	.....	1,749 1 11	
B	35	1,834 7 7	869 1 5	580 15 3	3,284 8 3	.....	.....	66 0 0	57 0 0	.....	*3,407 8 3	* One bill for Rs. 24-6-7 was a duplicate copy, the original having been lost by the Ward Clerk.
C	34	1,976 0 4	559 14 0	605 13 4	3,141 11 8	.....	.....	.....	15 0 0	.....	3,156 11 8	
D	70	3,618 0 10	469 10 11	1,144 8 10	5,232 4 7	16 8 0	.....	136 13 4	303 5 4	30 0 0	5,718 15 3	
E	60	2,663 14 9	264 10 3	805 13 1	3,734 6 1	.....	.....	1,275 13 0	639 10 8	.....	†5,649 13 9	† Three bills for Rs. 15-14-0, Rs. 104-9-6 and Rs. 301-10-0, were duplicate copies, the originals having been lost by the Ward Clerks, and one bill for Rs. 5-14-10, is reported to have been lodged in the Court of Small Causes, and decree obtained therefor.
F	15	326 6 5	7 3 2	107 15 10	441 9 5	.....	.....	149 10 0	15 0 0	15 0 0	621 3 5	
G	46	422 0 6	225 5 5	126 12 6	774 2 5	.....	.....	590 4 0	19 0 0	.....	1,383 6 5	
Total ...	492	19,477 14 2	4,806 12 5	4,806 14 1	29,091 8 8	17 0 0	592 4 6	5,003 5 11	1,981 0 0	45 0 0	36,730 3 1	

MUNICIPAL OFFICES,
BOMBAY, 30*th May* 1916.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

Appendix B.

Statement of Outstanding Bills of Rates and Taxes in arrears for the year 1914-15 and previous years in the hands of the Ward Clerks and in the Office of the Assessor and Collector on the 31st March 1916.

Wards.	No. of Bills.	Amount.								Remarks.
		On value.				Compounded or Special.			Tax on Vehicles and Animals.	Grand Total.	
		General Tax.	Water Tax.	Halalkhore Tax.	Total.	Compound Water Service.	Special Halalkhore Service.	Water charged by Meter.			
					For the year 1914-15.						
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
A	7	399 15 0	.....	121 8 0	521 7 0	.....	.....	.....	45 0 0	566 7 0	
B	5	.....	.....	.....	.....	.....	.....	.....	49 0 0	49 0 0	
C	1	101 15 4	30 15 7	30 15 7	163 14 6	.....	.....	.....	.....	163 14 6	
D	6	1,097 1 10	.....	333 4 10	1,430 6 8	5 0 0	.....	.....	.....	1,435 6 8	
E	12	1,239 11 3	11 10 10	374 0 10	1,625 6 11	.....	.....	.....	69 0 0	*1,694 6 11	*Two bills for Rs. 5-14-10 each are reported to have been lodged in the Court of Small Causes and decree obtained therefor.
F	2	92 12 10	.....	26 10 7	119 7 5	.....	.....	.....	.....	119 7 5	
G	5	16 15 8	1 15 2	1 15 2	20 14 0	.....	.....	.....	.....	20 14 0	
Total	38	2,948 7 11	44 9 7	888 7 0	3,881 8 6	5 0 0	.....	.....	163 0 0	4,049 8 6	
					For the year 1913-14.						
D	9	890 12 0	223 0 0	267 3 7	1,380 15 7	.....	.....	.....	25 0 0	1,405 15 7	
E	9	67 1 6	23 14 4	21 3 11	112 3 9	.....	.....	.....	42 6 0	†154 9 9	†Two bills for Rs. 13-11-10 and Rs. 25-10-0 are reported to have been lodged in the Court of Small Causes and decree obtained therefor.
Total	18	957 13 6	246 14 4	288 7 6	1,493 3 4	.....	.....	.....	67 6 0	1,560 9 4	
					For the year 1912-13.						
E	2	27 10 0	8 12 4	7 12 10	44 3 2	.....	.....	.....	.....	44 3 2	
					For the year 1911-12.						
B	4	.....	.....	.....	.....	.....	.....	.....	33 0 0	33 0 0	
E	1	0 11 3	4 6 2	3 14 5	8 15 10	.....	.....	.....	.....	8 15 10	
Total	5	0 11 3	4 6 2	3 14 5	8 15 10	.....	.....	.....	33 0 0	41 15 10	
					For the year 1909-10.						
B	2	.....	.....	.....	.....	.....	.....	.....	27 8 8	27 8 8	
Grand Total	65	3,934 10 8	304 10 5	1,188 9 9	5,427 14 10	5 0 0	.....	.....	290 14 8	5,723 13 6	

Municipal Offices,
Bombay, 30*th May* 1916.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

Appendix C.

SUMMARY OF APPENDICES A AND B.

YEARS.	APPENDIX A.		APPENDIX B.		GRAND TOTAL.	
	Number of Bills.	Amount.	Number of Bills.	Amount.	Number of Bills.	Amount.
		Rs. a. p.		Rs. a. p.		Rs. a. p.
1915-16	492	36,730 3 1	...	.....	492	36,730 3 1
1914-15	...	.....	38	4,049 8 6	38	4,049 8 6
1913-14	...	.....	18	1,560 9 4	18	1,560 9 4
1912-13	...	.....	2	44 3 2	2	44 3 2
1911-12	...	.....	5	41 15 10	5	41 15 10
1909-10	...	.....	2	27 8 8	2	27 8 8
Total ...	492	36,730 3 1	65	5,723 13 6	557	42,454 0 7

Outstanding amount on the same date last year was Rs. 56,658-3-5.

MUNICIPAL OFFICES,

BOMBAY, 30*th May* 1916.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

BOMBAY, *2nd August* 1916.

From

THE MUNICIPAL AUDITORS,

BOMBAY.

To

THE MUNICIPAL SECRETARY,

BOMBAY.

SIR,

We have the honour to forward herewith our Report on the accounts of the Schools Committee for the year 1915-16.

We have the honour to be,

Sir,

Your most obedient servants,

BHUKHANDAS B. DESAI,

SHIWARAM TRIMBAK THAKUR,

Municipal Auditors.

REPORT ON THE ACCOUNTS OF THE "SCHOOL FUND" FOR THE YEAR 1915-16.

In accordance with Bye-law No. 15 of the Schools Committee, we beg to report that we have audited the accounts, examined all vouchers, relating to Receipts and Disbursements of the "School Fund" in charge of the Schools Committee, from the 1st April 1915 to 31st March 1916 and found them in order. Some minor irregularities found in the course of audit will be reported to the Secretary of the Schools Committee for necessary action.

2. The total receipts of the "School Fund" amounted to Rs. 5,01,082-9-0 against Rs. 4,51,807-4-0 during the year 1914-15. The excess of Rs. 49,275-5-0 in receipts over the preceding year is mainly due to increase in the amount of contribution paid to the Schools Committee from the Municipal General Fund and in the amount of fees collected from schools.

3. The total expenditure during the year 1915-16 amounted to Rs. 5,02,173-11-9 against Rs. 4,77,963-2-10 in the year 1914-15. Thus there has been an increase of Rs. 24,210-8-11 in the expenditure of the year under report. The causes for the increase have been explained by the Secretary in his report of the Schools Committee.

4. It will be seen from the foregoing paras. 2 and 3 that the total outgoings were greater than the total receipts by Rs. (5,02,173-11-9 minus 5,01,082-9-0) 1,091-2-9. This difference is too small to require notice.

5. The expenditure under certain heads exceeded the Budget grants sanctioned for them. The excesses have, however, been sanctioned to be met by re-appropriation from the grant for "Headmasters and Teachers" in the Schools Committee's Resolution No. 68, dated 28th June 1916.

6. The total assets and workable balance of the "School Fund" on the 31st March 1916 amounted to Rs. 44,940-12-10 and Rs. 36,295-8-4 respectively, as per details given below :—

			Rs.	a.	p.
Advances recoverable			260	0	0
Government Promissory Notes being Security Deposit of Contractor, kept for safe custody in the Bank of Bombay (nominal value)			2,100	0	0
Government Promissory Notes and other Securities belonging to Prize Funds, deposited for safe custody with the Bank of Bombay (nominal value)			5,100	0	0
Government Promissory Notes of the nominal value of Rs. 25,000 on account of investment of Surplus Cash Balance belonging to the School Fund, deposited for safe custody with the Bank of Bombay (actual value) ...			24,109	6	0
Cash Balance—					
In the Bank of Bombay	Rs.	*12,762 13 4			
In the Office Treasury	„	608 9 6			
			13,371	6	10
Total amount of Assets ...			44,940	12	10
*Exclusive of Rs. 1,277-3-0 being the amount of cheque No. 1018447 drawn on the 31st March 1916 but paid on 1st April 1916.					
Deduct—					
Total Liabilities on account of Prize Funds, &c.	Rs.	5,428 10 4			
Total Liabilities on account of Deposit Accounts	„	3,216 10 2			
			8,645	4	6
Total amount of workable balance of the School Fund on 31st March 1916			36,295	8	4

7. The balance in the Pass Book of the Bank of Bombay was verified by us and found correct, and the safety receipts for the Government paper, &c., lodged with the Bank of Bombay, were examined by us and found to be in order.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

BOMBAY, 2*nd August* 1916.

BOMBAY, 31*st July* 1916.

From

THE MUNICIPAL AUDITORS,
BOMBAY.

To

THE MUNICIPAL SECRETARY,
BOMBAY.

SIR,

We have the honour to forward herewith our report on the Municipal Accounts for the year 1915-16, with a view to the same being printed and submitted to the Corporation as usual.

We have the honour to be,
Sir,
Your most obedient servants,
BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR.
Municipal Auditors.

REPORT OF THE AUDITORS OF MUNICIPAL ACCOUNTS FOR THE YEAR 1915-16.

For the audit of the accounts under review, Messrs. B. B. Desai and S. T. Thakur were appointed to be Auditors as per Corporation Resolution No. 7985, dated the 8th March 1915.

2. As usual, all vouchers and papers relating to both Receipts and Disbursements for the year 1915-16 have been examined with the Day-Books and the Subsidiary Ledgers, or classified Abstracts of Receipts and Charges; the postings in the General Ledger have also been checked with the entries in the Day-Books, and those in the Journal with the Subsidiary and General Ledgers.

3. The weekly statements of Receipts and Charges of the Municipal Fund were examined as they were prepared, prior to their publication in the *Bombay Government Gazette*.

4. The number of vouchers relating to the accounts of the year under review compares with those of the previous year, as follows:—

	1914-15.	1915-16.
Receipt vouchers	39,784	40,906
Disbursement vouchers	90,935	90,183
	1,30,719	1,31,089
	+ 370	

There is on the whole an increase of 370 in the number of vouchers in the year under report.

5. The result of the year compared with the Budget, and the Revised, and the Actuals of the previous year has been summarized below:—

	1914-15.	1915-16.		
	Actuals.	Budget.	Revised.	Accounts.
	Rs.	Rs.	Rs.	Rs.
Revenue and Receipts	1,24,13,367	1,22,37,000	1,34,35,000	1,38,31,070
Expenditure	1,24,53,191	1,28,89,948	1,33,29,012	1,28,03,870
Surplus	.....	.....	1,05,988	10,27,200
Deficit	39,824	6,52,948	.....	.....

6. The total Receipts during the year under review were more than those of the previous year by Rs. 14,17,703. The increase is mainly under General, Halalkhore and Water Taxes, Tobacco and Town Duties, counterbalanced by decrease under Market Receipts, Miscellaneous Receipts, Miscellaneous Fees, Actual Profit on sale of stores to contractors etc., and Interest and Profit on Investments of Surplus Loan and other balances. The actuals of Receipts were better than the Budget and the Revised by Rs. 15,94,070 and Rs. 3,96,070 respectively. The reasons for the variations have been given in the report of the Chief Accountant.

7. The total expenditure from the Municipal Fund during the year under report amounted to Rs. 1,28,03,870 against Rs. 1,24,53,191 in the previous year, resulting in an increase of Rs. 3,50,679. The Actuals are less than the Budget and the Revised by Rs. 86,078 and Rs. 5,25,142 respectively. When compared with the Actuals of the previous year there are variations under several heads which have been explained in the report of the Chief Accountant.

8. The Budget estimated for a deficit of Rs. 6,52,948 which was converted into surplus of Rs. 1,05,988 in the Revised. The actuals have, however, resulted in a surplus of Rs. 10,27,200 against a deficit of Rs. 39,824 in the previous year.

9. The opening cash balance on the 1st April 1915 was Rs. 2,08,791-10-9. This, together with the total Receipts of the year (inclusive of Debt, Deposits, Advances, &c.), amounted to Rs. 6,49,72,968-4-8. The gross payments during the year amounted to Rs. 6,46,46,970-4-9, thus leaving a balance of Rs. 3,25,997-15-11 on the 31st March 1916.

10. The surplus funds investments on the 31st March 1916 amounted to Rs. 62,75,616-10-0 as per following details against Rs. 50,49,691-6-11 on the same date last year:—

	Rs.	a.	p.
In Government, &c., Paper with the Bank of Bombay (face value Rs. 24,31,500)	24,30,891	14	0
In *Current Account* with the following Banks:—			
Bank of Bombay	91	15	0
Hongkong & Shanghai Banking Corporation	2,659	2	3
Comptoir National D'Escompte de Paris	312	1	6
Chartered Bank of India, Australia & China	8,782	7	2
National Bank of India, Limited	644	12	0
Yokohama Specie Bank, Limited	2,189	14	6
Mercantile Bank of India, Limited	4,519	15	2
Bank of India, Limited	52,902	12	8
Eastern Bank, Limited	1,22,621	11	9
Total ...	1,94,724	12	0
In *Fixed Deposits* with the following Banks:—			
Bank of Bombay	9,50,000	0	0
Yokohama Specie Bank, Limited	4,00,000	0	0
Mercantile Bank of India, Limited	8,00,000	0	0
Comptoir National D'Escompte de Paris	3,50,000	0	0
Bank of India, Limited	7,00,000	0	0
Eastern Bank, Limited	4,50,000	0	0
Total ...	36,50,000	0	0
Grand Total ...	62,75,616	10	0

11. The invested balances of the several Loan Funds on the 31st March 1916 amounted to Rs. 34,94,228-15-1 as per following details against Rs. 6,49,268-15-10 on the same date last year:—

	Rs.	a.	p.
In Government, &c., Paper with the Bank of Bombay (face value Rs. 0-0-0)	0	0	0
In *Current Account* with the following Banks:—			
Hongkong & Shanghai Banking Corporation	29	3	8
Chartered Bank of India, Australia & China	57	4	10
Yokohama Specie Bank, Limited	16	11	9
Mercantile Bank of India, Limited	77	3	10
Bank of India, Limited	75,119	9	10
Eastern Bank, Limited	68,928	13	2
Total ...	1,44,228	15	1
Carried over ...	1,44,228	15	1

	Rs.	a.	p.
Brought over ...	1,44,228	15	1
In *Fixed Deposits* with the following Banks :—			
Bank of Bombay	18,00,000	0	0
Comptoir National D'Escompte de Paris	2,00,000	0	0
Yokohama Specie Bank, Limited	4,00,000	0	0
Eastern Bank, Limited	5,50,000	0	0
Bank of India, Limited	4,00,000	0	0
Total ...	33,50,000	0	0
Grand Total ..	34,94,228	15	1

12. The above balances of current accounts in the several Banks have been compared with the Pass Books of the various Banks and found correct. The safety receipts for the Government, &c., Papers lodged with the Bank of Bombay, and the Fixed Deposit Receipts of the several Banks were examined and found to be in order.

13. The following is the list of charges, sanctioned during the year 1915-16 by the Municipal Commissioner and paid out of his Discretional Contingent Grant :—

Item No.	Particulars.	Amount. Rs.	a.	p.
1	Wages of a Naik engaged to assist the Head Test Audit Clerk in inspection work (Commissioner's No. 25373 of 31st October 1914. General sanction)	180	0	0
2	Cost of a first class passage to the Deputy Accountant, Mr. D. Robertson from England to Bombay and other incidental expenses (Corporation Resolution No. 8032 of 8th March 1915, Commissioner's No. 39747 of 11th March 1915 and 41167 of 23rd March 1915)	719	6	11
3	Rewards to 8 persons for rendering assistance on the occasion of a fire at Mahim Stables on 17th February 1915, (Commissioner's No. 41579 of 29th March 1915) ...	40	0	0
4	Part Travelling expenses incurred by Mr. N. Maughan, Drainage Engineer, while on leave in England, in conferring with Sir John Wolfe Barry and Mr. M. Taylor on the subject of drainage of the North of the Island of Bombay. (Standing Committee's Resolution No. 8597 of 31st March 1915, Commissioner's No. 40990 of 22nd March 1915 and 1691 of 20th April 1915, Corporation Resolution No. 3688 of 9th September 1915)	25	4	0
5	Travelling charges incurred by Mr. Higgins, Inspector, Health Department, for selecting sites for Oyster beds on the different creeks in Thana and other places in Salsette. (Commissioner's No. 37521 of 18th February 1915)	28	12	0
6	Expenses incurred in connection with providing beach marks required for the cadastral survey of the Island of Bombay. (Commissioner's No. 17950 of 26th August 1914)	354	1	2
7	Cost of paving and channelling the rear house gully of the Charitable Dispensary building at Kamatipura, Central Road (Commissioner's No. 37577 of 18th February 1915)...	154	2	1
8	Payment of funeral expenses incurred by the widow of the late Bapu Gangaji Fire Brigade Tindal, who met with his death from fall at the fire at Kohinoor Mills, Naigao. (Commissioner's No. 27812 of 28th November 1914)...	22	0	0
9	Payment for professional services rendered by Messrs. Chambers and Fritchley in connection with the improvement of a portion of Fort (South), (Church Gate Street). (Commissioner's No. 10147 of 23rd June 1915)...	181	0	0
10	Payment to Mr. Bapuji Kawasji Devecha on account of damage done by the Health Department cart No. 65 to one of the pillars and railing of his premises at Sleater Road. (Standing Committee, Resolution No. 355 of 14th April 1915, Commissioner's No. 2722 of 27th April 1915)	14	6	0
11	Payment of compensation to the Bombay Gas Company, Limited, for damage done to a Gas lamp No. 4181 at Parel Road near Byculla Bridge by the Fire Brigade Horse Carriage on 5th June 1915. (Standing Committee, Resolution No. 2790 of 4th August 1915 Commissioner's No. 18044 of 20th August 1915)	1	6	0
12	Cost of providing a three gallon automatic flushing cistern warming pipe protected with a wire gauze at the Premises No. 12, Kamatipura Central Road. (Commissioner's No. 21361 of 18th September 1915)	35	14	0
13	Payment of Reward to Bhagia Pawji, Municipal Workshops Rivetter, for giving information regarding theft of Road Department Metal plates from the Municipal Workshops (Commissioner's No. 26872 of 5th November 1915)	5	0	0
14	Write-off of an irrecoverable bill for cleaning House Drain of one Abdul Hussein Currimji Arsiwalla. (Commissioner's No. 30623 of 9th December 1915 Standing Committee's Resolution No. 8329 of 22nd March 1916)	9	10	6
15	Cost of replacing a fire alarm pillar at Duncan Road damaged by a Municipal hand roller. (Standing Committee's Resolution No. 5878 of 15th December 1915, Commissioner's No. 34663 of 21st January 1916)	130	0	0
16	Charges on account of Railway fare etc., paid to Scavengering bigari Sakhia Baloo, who proceeded to Coonoor for Anti-Rabic treatment. (Commissioner's No. 36171, of 7th February 1916)...	30	1	0
17	Cost of a slab engraved in lead placed upon the Stone Elephant in the Victoria Gardens. (Commissioner's No. 21909 of 23rd September 1915)	115	0	0
18	Payment of a claim preferred by the Bombay Gas Company, Limited, for damage caused to their Stellite Car No. 3545, by a Municipal Motor Lorry. (Standing Committee's Resolution No. 6732 of 26th January 1916, Commissioner's No. 38170 of 23rd February 1916)	75	0	0
	Carried over ...	2,121	0	2

Item No.	Particulars.	Amount.
		Rs. a. p.
	Brought forward ...	2,121 0 2
19	Payment of compensation to Mrs. Mary Hemin for the loss of her daughter's Umbrella at the Victoria and Albert Museum. (Standing Committee's Resolution No. 6898 of 2nd February 1916 Commissioner's No. 38166 of 23rd March 1916) ...	8 8 0
20	Payment of ground rent from 10th June 1915 to 17th November 1915 for the plot bearing Collector's New Survey No. 1037, occupied as Girgaum N. S. Depôt subsequently acquired by the Improvement Trust. (Commissioner's No. 39198 of 4th March 1916)	2 7 10
21	Compensation for damage done to the Bombay Electric Supply and Tramways Company's Tram Car No. 6 by Municipal Motor wagon No. 86 colliding at Byculla Bridge on 9th October 1915 (Standing Committee's Resolution No. 6897 of 2nd February 1916, and Commissioner's No. 39469 of 7th March 1916)	38 14 0
22	Compensation for damage done to the Bombay Electric Supply and Tramways Co.'s two tram cars Nos. 79 and 84 by Municipal Motor Wagon No. 90 colliding at Byculla near Tata Building on 20th November 1915. (Standing Committee's Resolution No. 7399 of 23rd February 1916 and Commissioner's No. 4165 of 14th March 1916)	388 14 0
23	Cost of a clock purchased with a view to insure successful working of the system of night patrolling at the Municipal Office Building by Ramosis on the watch. (Commissioner's No. 39093 of 3rd March 1916)	18 0 0
24	Write-off of irrecoverable bills in respect of charges incurred by the Municipality in making water connections, repairing hydrants, etc. (Standing Committee's Resolution No. 8491 of 22nd March 1916 and Commissioner's No. 1490 of 19th April 1916)	66 15 2
25	Write-off of bills for removing chokes in house drains at different places. (Standing Committee's Resolution No. 513 of 19th April 1916 Commissioner's No. 3989 of 11th May 1916)	361 10 3
26	Adjustment of subscription for parts IV and V of the *Bombay Government Gazette*, refunded by the Government Central Press and erroneously credited to this head. (Dr. Vo. No. 2009 of 14th April 1916)	2 15 0
	Total	3,004 4 5
	Less—Credits	*347 7 0
	Grand Total	2,656 13 5

*(1)	On account of balance refunded out of Rs. 1,000 sanctioned to be paid to the Halalcores rendered destitute by the fire at Mahim Stables (*vide* Credit Voucher No. 1156 of 13th April 1915)	Rs. 344 8 0
(2)	On account of refund of subscription for *Bombay Government Gazettes* by the Government Central Press, erroneously credited to this head and subsequently adjusted ...	„ 2 15 0
		Rs. 347 7 0

14. The amount outstanding on the 31st March 1916 under "Advances—Personal Account of Municipal Officers" was Rs. 39,032-15-4 against Rs. 51,301-3-3 on the same date last year. The former sum includes Rs. 6,403 on account of permanent advances to Municipal Officers, and the remainder, *viz.*, Rs. 32,629-15-4 represents the sums debited to this head pending adjustment.

15. The amounts outstanding on the 31st March 1916 under the heads noted below compare as follows with those on the same date last year:—

	1914-15.	1915-16.
	Rs. a. p.	Rs. a. p.
Departmental works	22,744 5 4	16,187 8 1
Private works	27,527 15 0	22,094 11 3
Workshop	23,250 10 6	47,559 10 7
Total Rs. ...	73,522 14 10	85,841 13 11

16. The amount outstanding on the 31st March 1916 to the debit of "Personal Account of Municipal Contractors" for supplies and services rendered to them and for recoveries due from defaulting contractors was Rs. 118-9-11, against Rs. 6-0-0 on the same date last year.

17. The amount outstanding on the 31st March 1916 under "Miscellaneous Advances" aggregated Rs. 4,57,717-10-7 against Rs. 7,68,434-1-8 on the same date last year. The decrease under this head has been explained in the report of the Chief Accountant.

18. The total expenditure on account of Plague during the year under report, met out of the current revenue, amounted to Rs. 1,22,911-9-2 against Rs. 1,27,633-5-7 in the preceding year. The total expenditure on this account from the commencement of the Plague, that is, from the year 1896-97 to the end of the year 1915-16 amounted to Rs. 80,97,440.

19. The scrutiny of collections and of outstanding bills of Rates and Taxes for the year 1915-16 and of the previous years:—

Collections.—During the year there were issued by the Assessor and Collector 87,453 net demand Assessment Bills for Property and Wheel Taxes of the value of Rs. 86,57,124-5-2 and 2,434 bills for meter hire for the same year of the value of Rs. 34,066-0-0.

The following figures give the particulars of the bills and collections:—

		Rs.	a.	p.	Rs.	a.	p.
87,362	Bills for Property and Wheel Taxes were issued for 1915-16 of the value of				86,52,585	14	0
91	Bills for 1914-15				4,538	7	2
2,434	Bills for meter hire for 1915-1916				34,066	0	0
89,887					86,91,190	5	2
	Add—Government and Port Trust Contributions as per awards	6,18,812	9	6			
	Difference for 1914-15 between the old and the new awards in respect of Government Properties	36,150	10	2			
	Difference for 1914-15 between the old and the new awards in respect of Port Trust Properties including Rs. 3,880 for anticipated increase in respect of their vacant lands	1,43,668	0	0			
	Outstandings on 31st March 1915	56,658	3	5			
					8,54,789	7	1
	Total amount to be collected				95,45,979	12	3
	Less—Collections made by the Assessor and Collector	86,99,232	4	7			
	Paid by Government and Port Trust	7,98,131	5	8			
					94,97,363	8	3
					48,616	4	0
	Deduct—Amount of bills recalled and cancelled for 1913-14 and 1914-15				6,162	3	5
	Total outstanding balance on 31st March 1916				42,454	0	7
	Amount outstanding on 31st March 1915 exclusive of meter hire				56,529	3	5
	Deduct—Amount of bills recalled and cancelled during the year prior to 1915-16 exclusive of Rs. 397 on account of meter hire				5,765	3	5
					50,764	0	0
	Add—Amount of bills amended and issued during the year				4,538	7	2
					55,302	7	2
	Deduct—Amount recovered during the year				49,578	9	8
	Balance outstanding on 31st March 1916				5,723	13	6

20. In accordance with the instructions contained in the Corporation Resolution No. 5294, dated the 19th November 1888, all Sinking Fund investments during the year pertaining to the several loans were examined with the result that Rs. 8,24,057-5-3 were found to be invested on account of instalments and Rs. 6,00,006-14-0 on account of accrued interest on the invested balances. The total accumulated balances on account of the several sinking funds on the 31st March 1916 amounted to Rs. 1,65,04,880-8-0, (Rs. 1,65,04,169-11-0 in securities of the nominal value of Rs. 1,61,32,100 and £25,000=Rs. 3,75,000 as given below, and Rs. 710-13-0 in cash):—

	Nominal Value of Paper.			Actual Cost of Paper.		
	Rs.	a.	p.	Rs.	a.	p.
5 per cent. Municipal Debentures ...	36,41,000	0	0	36,41,000	0	0
4 per cent. do. do. ...	57,36,500	0	0	57,36,316	6	9
4 per cent. Bombay Port Trust Bonds...	5,52,000	0	0	5,52,000	0	0
4 per cent. Bombay Improvement Trust Bonds	34,75,000	0	0	34,75,051	11	3
4 per cent. Bombay Improvement Trust Sterling Bonds	3,75,000	0	0	3,75,000	0	0
3½ per cent. Government Promissory Notes	22,27,600	0	0	22,24,801	9	0
3 per cent. Government Promissory Notes	5,00,000	0	0	5,00,000	0	0
Total Rs. ...	1,65,07,100	0	0	1,65,04,169	11	0

The safety receipts granted by the Bank of Bombay for the above securities in its custody have been examined and found to be in order; and the cash balances in the Bank's Pass Books, of the above funds have also been verified and found correct.

21. The balances of the several Reserve Funds, *viz.*, the "Municipal Fire and Accident Insurance," "Worn-out Water Mains Renewal" and the "Net Premia" Funds on the 31st March 1916 amounted to Rs. 9,20,628-13-2, (Rs. 9,19,792-3-0 in securities of the nominal value of Rs. 9,22,000 as given below, and Rs. 836-10-2 in cash):—

	Nominal Value.			Actual Cost.		
	Rs.	a.	p.	Rs.	a.	p.
Municipal Fire & Accident Insurance Fund...	2,17,000	0	0	2,16,743	2	0
Worn-out Water Mains Renewal Fund ...	5,70,000	0	0	5,69,168	7	0
Net Premia Fund	1,35,000	0	0	1,33,880	10	0
Total Rs. ...	9,22,000	0	0	9,19,792	3	0

The Bank's safety receipts for the above securities and the Pass Books for the Cash Balances have been examined and found to be in order.

22. The safety receipts for securities in Government, &c., Papers, aggregating Rs. 3,79,400, received from the Municipal employés and contractors and belonging to the several Memorial funds, and lodged with the Bank of Bombay, have been examined and found to be in order.

23. The securities other than Government, &c., Papers, furnished by the Municipal employés, and on the record of the Chief Accountant's Office, have also been examined with the registers maintained in his office, and found to be in order.

24. The balance of stock in hand on the 31st March 1916 as per books of the Chief Accountant, compared with that of the preceding year, was as follows:—

Department.	1914-15.			1915-16.		
	Rs.	a.	p.	Rs.	a.	p.
Executive Engineer's Department	659	12	0	597	12	9
General Stores Department.						
General Stores	2,78,486	2	0	2,54,806	1	11
Surplus and Obsolete Stores	4,846	14	11	4,581	7	8
Line Suspense Account	1,03,512	8	8	90,613	6	2
Total Rs. ...	3,86,845	9	7	3,50,000	15	9
Stores (Sales)	26,439	8	4	29,668	2	8
Water Works Imprest	4,488	15	5	3,572	9	0
Stock Adjustment Account	—500	0	8	—2,011	4	1
Total Rs. ...	30,428	7	1	31,224	7	7
Grand Total Rs. ...	4,17,933	12	8	3,81,823	4	1

25. In accordance with the instructions contained in para. XXIX of the Stores and Stores Audit Manual, a balance sheet of the General Stores Department has been prepared in the form prescribed in Appendix O of the Manual, giving two sets of figures, one from the Books of the Chief Accountant and the other from the Balance Sheet of the Storekeeper. The difference in the balance on the 31st March 1916 between the two sets of figures has been explained by a foot-note in the statement hereto annexed.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors.

BOMBAY, 31*st July* 1916.

Statement of Stores Transactions for the year ending 31st March 1916.

(Appendix **O** of the Stores and Stores Audit Manual.)

General Stores Department.	Figures as per books of the Chief Accountant.					Figures as per Balance Sheet of the Storekeeper.				
	Balance on 31st March 1915.	Receipts during 1915-16.	Total.	Issues during 1915-16.	Balance on 31st March 1916.	Balance on 31st March 1915.	Receipts during 1915-16.	Total,	Issues during 1915-16.	Balance on 31st March 1916.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
General Stores ...	2,78,486 2 0	7,47,098 11 8	10,25,584 13 8	7,70,778 11 9	2,54,806 1 11	2,73,185 15 2	7,57,991 0 10	10,31,177 0 0	7,88,659 13 2	2,42,517 2 10
Surplus and Obsolete Stores	4,846 14 11	124 3 4	4,971 2 3	389 10 7	4,581 7 8	4,847 7 9	125 8 6	4,973 0 3	1,027 2 7	3,945 13 8
Line Suspense Account	1,03,512 8 8	1,168 0 6	1,04,680 9 2	14,067 3 0	90,613 6 2	1,03,512 8 8	1,170 3 2	1,04,682 11 10	18,162 13 4	86,519 14 6
Total Rs. ...	3,86,845 9 7	7,48,390 15 6	11,35,236 9 1	7,85,235 9 4	3,50,000 15 9	3,81,545 15 7	7,59,286 12 6	11,40,832 12 1	8,07,849 13 1	3,32,982 15 0
									Difference ...	17,018 0 9
										3,50,000 15 9

The difference of Rs. 17,018-0-9 between the balances on 31st March 1916, as shown above, is mainly due to non-adjustment in the books of the Chief Accountant of the value of the stores issued to different Departments which will be adjusted in the next year's accounts.

BHUKHANDAS B. DESAI,
SHIWARAM TRIMBAK THAKUR,
Municipal Auditors

BOMBAY, 31*st July* 1916.

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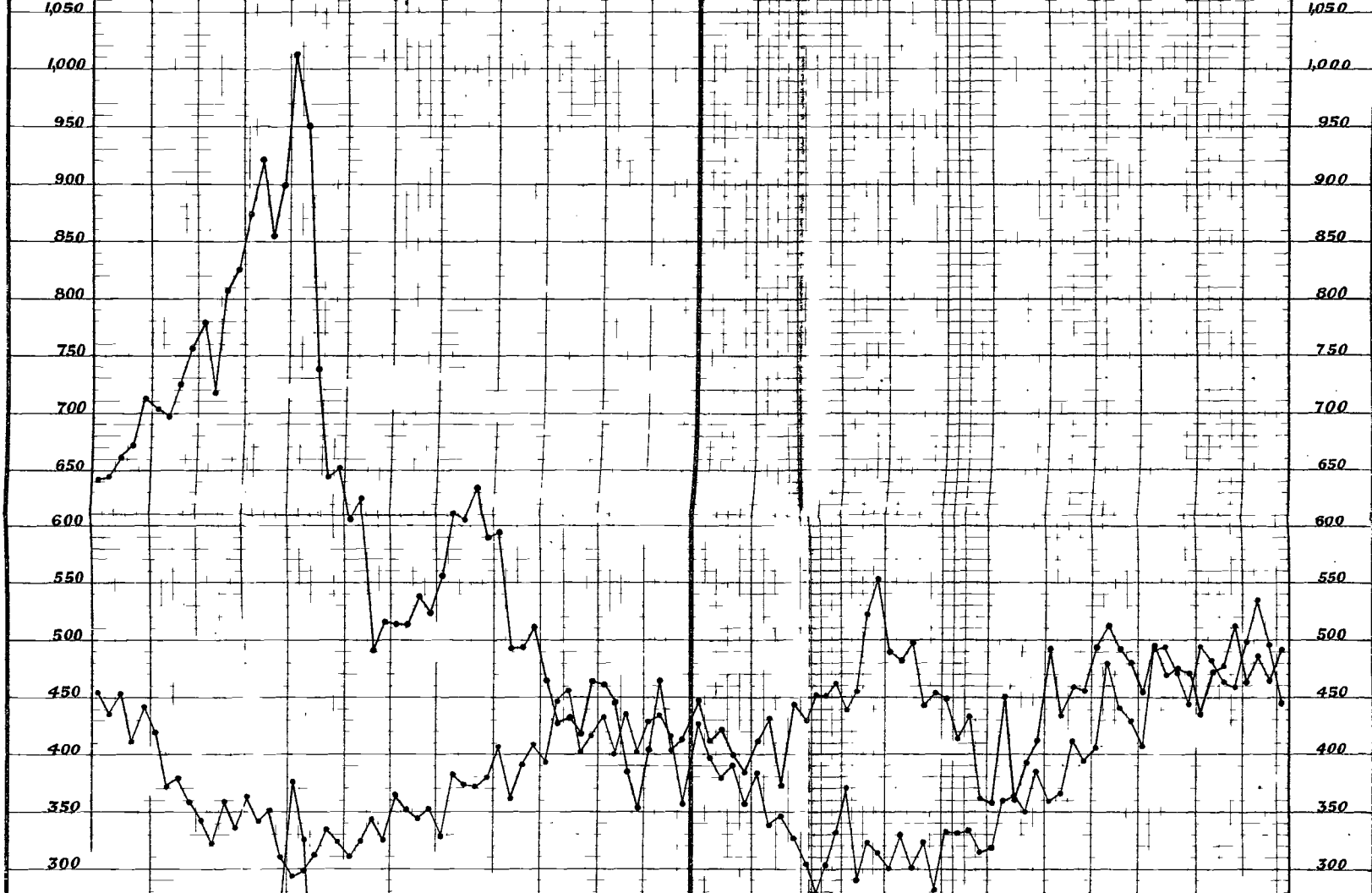
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PUBLIC HEALTH.

Annual Report of the Executive Health Officer for 1915.

I have the honour to submit my 16th Annual Report on the Conditions and Administration of the Public Health of Bombay during 1915.

Review of the Health Conditions in 1915.

Judging from the vital statistics, the year may be pronounced to have been the healthiest in the annals of the City: as, while the birth-rate per 1,000 of population was one of the highest recorded in previous years, the total death-rate and the death-rates from the principal diseases were in most cases the lowest.

There was no epidemic incidence of any disease except Plague, the mortality from which, being 2,941 in 1914, dropped during the year under report to nearly a fifth of that figure (599). The epidemic of Plague was thus the lightest in mortality, as it was also the shortest in duration, namely, four weeks.

The mortality from Cholera (16) was the lowest on record; the death-rate being ·01, the nearest approach to which was ·02 in 1903. Further, it is interesting to note, that for the first time in the history of the City, no death from the disease was registered during a period of four months. Cholera has never before been absent for more than two months at a time and in a long survey from 1850 onwards, we find its continuous absence for three months only in 1897.

The uninterrupted decline in the mortality from Tubercular Diseases continued during the year under report; 1,889 (1·9) deaths were ascribed to it in 1914 and in 1915 1,710 deaths: this is the lowest recorded mortality from the disease and the death-rate (1·74) is the lowest the City has known.

The death-rate from Measles (·07) was the same as in 1909 and otherwise the lowest registered.

The mortality from Fevers (2,091) was 786 less than in 1914; never before was it so low; the death-rate (2·13) was the lowest registered. The number of deaths registered from Respiratory Diseases (6,770) also was the smallest since 1896 (5,334); the death-rate was 6·91 against 6·49 in the latter year.

The death-rate from Diarrhœal Diseases (2·24) was the lowest since 1895 (2·21).

The Infant Mortality (6,602) was the lowest since 1893 (6,446) except in 1898 (6,279); but the ratio per 1,000 of births registered (329·2) beats all previous record.

The mortality from all causes was 23,681; 8,172 less than in 1914 and 14,816 less than the average of the preceding ten years (38,497). There were no less than 596 deaths among new arrivals not belonging to the City; inclusive of these, the death-rate per 1,000 of population was 24·17, which is the lowest registered since 1874 (24·04).

The number of *live* births registered during the year was 20,052; that is, 373 more than in 1914 and 408 more than in 1913.

Natural Increase.

The phenomenon of natural increase (of registered births over deaths) recorded for the first time in 1914 was in more frequent evidence during 1915; namely, during the weeks ending 17th July, 16th October, 6th and 13th November, 4th, 11th and 18th December.

Comparison with the Health Conditions of 1914.

Compared with 1914, the principal increases of mortality were registered under the following diseases:—

Cause of Death.	*Increase.*
Small-pox	107
Diseases of the Circulatory System	41
„ „ „ Organs of Locomotion	18

The principal decreases, on the other hand, were the following :—

Cause of Death.	*Decrease.*	*Cause of Death.*	*Decrease.*
Plague	2,342	Diseases of the Digestive System...	130
Measles	193	Old Age and Debility	745
Cholera	205	Other General Diseases	377
Fevers	786	Diseases of the Nervous System ..	399
Diarrhœal Diseases	907	Tubercular Diseases	179
Respiratory Diseases	1,964	Puerperal Septicæmia	71

All these decreases are equivalent to a reduction in the death-rate of 8·35 per 1,000 living or a fall of 8,172 in total mortality.

Comparison with the decennial averages (1905-1914).

Further, if the principal vital statistics of the year be compared with their decennial averages, striking decreases will be observed to have been recorded :—

Cause of Death.	*Decrease.*	*Cause of Death.*	*Decrease.*
Plague	5,090	Respiratory Diseases	2,296
Small-pox	332	Infant Mortality	2,222
Cholera	473	Mortality among Children under 5 years	1,582
Fevers	1,245	Live Births registered	108
Measles	322		
Tubercular Diseases	1,182		

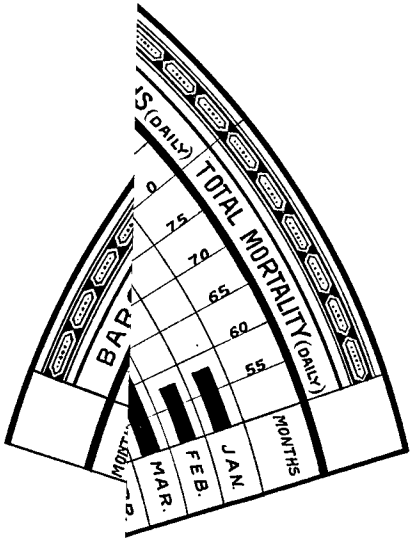
It may be pointed out that the mortality from the diseases specified above, with the exception of Small-pox, as well as from all causes, as also the Infant Mortality and mortality among children under 5 years was in 1915 lower than in any of the preceding ten years ; and it has already been mentioned that the mortality from Plague, Fevers, Cholera and Tubercular Diseases was the lowest on record.

Compared with the decennial mean (38,497), the total mortality in 1915 (23,681) shows a saving to the City of 14,816 lives.

TABLE OF BIRTHS AND DEATHS REGISTERED FROM PRINCIPAL CAUSES DURING 1900-1915.

Year.	Births (excluding still-births).		Deaths from all causes (excluding still-births).		Plague.		Small-pox.		Cholera.		Malaria.		All fevers (including Malaria.		Measles.		Tuberculosis.		Respiratory Diseases.		Infant Mortality.		Mortality of Children under 5 years.		still Births.
	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000.	No. registered.	Rate per 1,000	
1900 ..	12,688	15·43	79,350	96·56	13,285	10·18	3,618	3·67	4,273	5·19	..	..	7,928	9·64	1,500	1·82	8,657	10·53	12,522	15·23	13,492	1063·2	7,965	10·05	2,662
1901 ..	13,320	17·42	59,495	76·66	18,736	24·14	159	·20	198	·25	..	..	7,921	10·20	67	·08	7,089	9·12	7,804	10·05	7,768	574·5	4,290	7·05	2,153
1902 ..	17,599	22·67	48,414	62·38	13,820	17·80	288	·37	75	·09	..	..	4,518	5·82	642	·82	4,595	5·92	7,250	9·34	9,553	542·8	3,890	8·03	2,617
1903 ..	16,375	21·10	50,513	65·09	20,788	26·78	1,477	1·90	17	·02	294	·37	2,500	3·22	1,115	1·43	3,475	4·47	7,101	9·15	8,718	532·3	4,087	8·09	1,814
1904 ..	19,556	25·20	42,676	54·99	13,538	17·44	568	·73	219	·28	270	·34	2,530	3·26	229	·29	3,548	4·57	7,339	9·45	8,981	459·2	3,274	7·66	2,038
1905 ..	19,141	24·66	47,762	61·54	14,198	18·29	2,161	2·78	26	·03	267	·34	2,878	3·70	620	·79	3,183	4·10	9,103	11·78	10,664	557·1	4,556	9·52	2,073
1906 ..	20,769	21·24	52,874	54·07	10,823	11·06	276	·28	1,241	1·26	190	·19	4,882	4·99	936	·95	4,052	4·14	11,731	11·99	11,106	534·7	5,314	10·05	2,197
1907 ..	19,335	19·97	38,087	39·56	6,389	6·53	86	·08	439	·44	149	·15	3,633	3·71	107	·10	3,440	3·51	9,022	9·22	8,276	423·6	3,676	9·48	1,830
1908 ..	20,166	20·62	28,271	30·12	5,361	5·48	1,026	1·04	95	·09	331	·33	3,403	3·48	653	·66	3,028	3·09	8,954	9·15	9,077	450·1	4,173	10·00	1,918
1909 ..	19,839	20·28	34,878	35·66	5,197	5·31	473	·48	727	·74	295	·29	2,800	2·86	75	·07	2,862	2·92	7,974	8·15	8,030	404·7	2,972	8·52	1,808
1910 ..	19,939	20·29	34,933	35·72	3,656	3·73	1,008	1·03	107	·10	293	·29	3,113	3·18	184	·18	2,839	2·90	8,212	8·39	8,253	413·9	4,001	11·45	1,588
1911 ..	21,376	21·82	34,961	35·69	4,006	4·09	443	·45	122	·12	334	·34	3,146	3·21	652	·66	2,694	2·75	8,640	8·82	8,120	379·8	4,227	12·09	1,739
1912 ..	21,518	21·99	38,054	39·77	1,717	1·75	979	·99	1,790	1·82	360	·36	5,585	5·66	210	·21	2,794	2·85	9,686	9·88	9,646	448·2	4,830	12·39	1,648
1913 ..	19,944	20·05	31,806	32·47	2,609	2·66	212	·21	125	·12	261	·26	3,043	3·10	222	·22	2,152	2·19	8,604	8·78	7,488	381·1	3,661	11·51	1,587
1914 ..	19,679	20·09	31,853	32·53	2,941	3·00	252	·25	221	·22	213	·21	2,877	2·93	263	·26	1,889	1·92	8,734	8·91	7,580	385·1	3,775	11·85	1,561
Average of 1905-1914..	20,109	21·03	38,497	40·17	5,689	5·92	691	·72	489	·51	269	·28	3,396	3·48	382	·40	2892	3·01	9,066	9·46	8,824	9·20	4,117	4·29	1,796
Average of 1910-1914..	20,431	20·86	34,501	35·23	2,986	3·04	579	·59	479	·48	292	·29	3,152	3·22	306	·31	2,473	2·52	8,775	8·96	8,217	8·39	4,099	4·18	1,629
1915 ..	20,052	20·47	23,681	24·17	590	·61	359	·36	16	·01	208	·21	2,091	2·13	70	·07	1,710	1·74	6,770	6·91	6,602	329·2	2,535	10·70	1,352

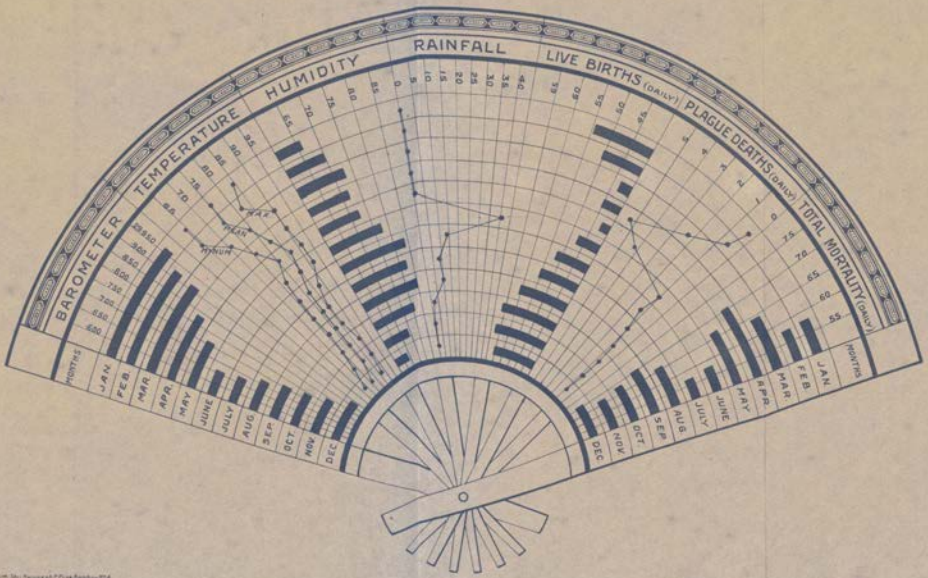
DAILY CONDITIONS
INTHS OF



Lith. Shri Karunesh P.Prss.

DIAGRAM

DAILY MEAN BIRTHS, DEATHS AND CLIMATIC CONDITIONS IN BOMBAY DURING THE SEVERAL MONTHS OF 1915.



The following table shows the monthly and total rain-fall in the City during the last ten years:—

Year.	January to June.	July.	August.	September to December.	Total.
1905	6·61	15·90	4·35	7·40	33·66
1906	13·35	18·10	20·91	3·94	56·30
1907	22·82	59·26	15·93	2·77	100·78
1908	15·41	21·13	9·67	7·33	53·54
1909	16·68	31·37	7·82	15·35	71·22
1910	23·95	7·42	16·89	19·60	67·86
1911	10·95	15·89	16·90	2·77	46·51
1912	11·22	25·77	9·70	7·36	54·05
1913	25·81	33·58	3·47	8·10	70·96
1914	16·84	31·12	12·44	21·22	81·62
1915	**41·51**	**14·39**	**8·93**	**12 85**	**77·68**

During the year under review, rain fell on 100 days ; 1 day in each of the months of February and December; 3 days in March ; 2 days in April ; 4 days in May ; 13 days in June ; 26 days in July ; 25 days in August ; 14 days in September ; 9 days in October and 2 days in November—against 114 days in 1914, 94 days in 1913, 87 days in 1912.

The climatic conditions during the year under review may be stated to have been favourable: the total rainfall recorded at the Colaba Observatory was 79·68 inches against 81·62 inches in 1914. In spite of the rather late arrival of the monsoon, the rainfall was more abundant than in any other year since 1907 excepting 1914 and about six and a half inches above the City's normal (71·15).

Readings of the Thermometer.

MONTHS.	1910.			1911.			1912.			1913.			1914.			1915.		
	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.	Maximum.	Mean.	Minimum.
January ..	85·1	74·7	61·4	88·4	75·5	63·1	88·5	76·9	66·4	84·5	75·7	65·4	87·2	68·7	77·0	84·7	75·4	64·4
February ..	86·4	77·0	66·8	90·2	75·6	59·2	88·0	77·3	66·7	84·6	76·5	64·8	84·5	63·4	76·0	82·2	74·9	64·4
March ..	90·4	79·7	68·7	85·6	78·7	70·4	89·2	79·9	70·8	86·0	77·6	69·3	86·3	69·2	78·0	90·2	79·8	71·0
April ..	88·6	82·9	75·5	88·6	81·2	73·4	90·7	84·5	76·2	89·3	82·7	72·5	89·5	74·4	81·9	90·2	83·9	76·2
May ..	90·2	84·2	77·8	91·3	85·6	78·4	91·9	86·5	79·4	92·4	86·5	79·4	91·3	80·6	86·5	92·5	87·3	80·4
June ..	92·6	83·1	76·2	90·4	83·7	77·4	92·4	85·4	76·8	93·0	83·7	74·8	91·6	77·4	85·0	92·6	85·0	77·6
July ..	87·4	82·4	77·3	86·0	82·1	75·8	87·4	82·1	76·9	86·6	81·5	74·8	88·7	76·2	82·2	88·2	82·2	76·1
August ..	85·2	80·3	75·6	84·6	80·3	74·8	85·3	81·0	76·5	85·6	81·4	75·7	85·1	76·8	81·2	85·8	81·6	75·7
September ..	84·8	79·8	74·4	85·5	81·4	77·0	87·3	81·8	76·4	87·1	81·2	76·0	86·6	76·8	81·5	86·3	81·5	76·6
October ..	89·2	81·0	73·2	90·2	82·9	74·4	91·3	82·6	74·2	89·4	82·7	75·0	92·2	76·5	84·4	89·1	81·9	75·2
November ..	87·4	78·2	67·8	90·8	81·3	74·3	91·6	80·3	68·8	89·2	79·8	70·5	91·7	73·4	82·7	89·2	81·7	73·2
December ..	87·0	75·6	66·3	89·2	80·2	70·6	85·9	77·6	68·4	87·0	76·6	64·7	88·4	66·7	77·4	87·4	76·9	68·3

The following are the principal statistics for 1915:—

Area of Bombay City and Island	22·55 sq. miles.
Population by the Census of 1911	979,445
Average density of population	67 per acre.
Total rainfall	77·68 inches.
Number of *live* births registered	20,052
Birth-rate per 1,000 of population	20·47
Number of deaths from all causes	23,681
Death-rate per 1,000 of population	24·17
Number of deaths of infants (under 1 year)	6,602
Infantile death-rate per 1,000 births registered .. .	329·2
Deaths of children, 1 to 5 years	2,535
Death-rate of children, 1 to 5 years per 1,000 of child population	48·8
Number of deaths from Plague	599
Death-rate from Plague	·61
Number of deaths from Small-pox	359
Death-rate from Small-pox	·36
Number of deaths from Cholera	16

Death-rate from Cholera	·01
Number of deaths from Malaria	208
Death-rate from Malaria	·21
Number of deaths from all Fevers including Malaria ..	2,091
Death-rate from all Fevers	2·13
Number of deaths from Measles	70
Death-rate from Measles	·07
Number of deaths from Tuberculosis	1,710
Death-rate from Tuberculosis	1·74
Number of deaths from Respiratory Diseases	6,770
Death-rate do. do. do.	6·91

The total mortality was 23,681 being 8,172 less than in 1914 : the corresponding death-rates being 24·17 and 32·52 per 1,000 of the population.

Births and Birth-rate.

The number of births registered during the year, exclusive of 1,532 still-born, was 20,052 being 373 more than in 1914 and 108 more than the decennial average (1905-1914). The birth-rate per 1,000 of population therefore works out to 20·47 against 20·09 in 1914 and was higher than in 1913 and 1914, but lower than in 1911 (21·82) and 1912 (21·96).

Births by Months

It will be seen from the following table that, compared with 1914, the number of births registered during each of the first six months of the year under review was less than in the corresponding month of 1914 : the difference was the largest in the first month (—252) and narrowed down in succeeding months, until in June nearly the same number was registered ; 1,423 in 1915 against 1,426 in 1914.

In striking contrast to these figures are those for the next six months, for they not only mark an increase over the corresponding months of 1914, but this increase, which was only of 60 and 38 during July and August, rose steadily to 273 in December.

Thus while during the first six months, a decrease of 634 births was registered, the next six showed an increase of 1,007 over the corresponding period of 1914, the net increase for the whole year being of 373 births.

MONTHS.	No. of Births registered in 1915.	No. of Births registered in 1914.	No. of Births registered in 1913.
January	1,693	1,945	1,797
February	1,417	1,534	1,479
March	1,362	1,513	1,444
April	1,363	1,439	1,300
May	1,353	1,388	1,289
June	1,423	1,426	1,352
July	1,612	1,552	1,533
August	1,712	1,674	1,681
September	1,854	1,664	1,736
October	2,097	1,914	1,993
November	2,037	1,774	2,013
December	2,129	1,856	2,027
TOTAL ...	20,052	19,679	19,644

In my Annual Report for 1914, referring to the exceptional reduction of births in November and December—which are usually among the months which register the largest number, I commented as follows :—" If therefore the known fact of an exodus of the population during the latter months of the year in consequence of the War be taken in conjunction with the

unusual fall in the number of births observed during the closing months of the year, the relation of cause and effect between these two phenomena naturally suggests itself for, while th total population may have during this period not suffered any considerable diminution, owing to additions received from time to time in the shape of large numbers of troops sojourning in and passing through the City, there can be little doubt that the female population was effectively reduced below the normal and this reduction was mainly responsible for the unusual fall in the number of births registered during November and December."

It is apparent that the operation of these conditions induced by the outbreak of War continued into the earlier months of the year under review and is responsible for the very striking reduction in the number of births registered in the period ; the extent of this diminution will be realised from the fact that it was equivalent to 248 less in the first three months than in the corresponding period of 1913 which, without the abnormal conditions referred to above, was itself remarkable for a very marked decline.

As to the comparative steady increase recorded in the latter half of the year, it may be taken as significant of a gradual approach to normal conditions, as people grew familiar to the existence of War and realised that it was impossible to indefinitely continue out of Bombay, especially as hostilities gave no signs of an early termination.

Census of children upto two years of age in selected chawls.

With a view of checking the registration of births, a census as in 1913 and 1914 was taken by the Health Department, on the 28th of May, of children upto two years of age in some of the chawls selected from the poorer localities in the City.

Ten of the chawls were common to the enumerations of 1913 and 1914; but in the year under review all the chawls enumerated were the same as in 1914, so that the results could be more accurately compared.

Eight of the 50 chawls belonged to the City Improvement Trust and 1 to the Port Trust ; and these bodies gave their assistance and co-operation in the enumeration of their respective chawls.

The work was supervised, as in the past, by the Deputy Health Officers, while I and my two Assistants visited some of the chawls during the operations, which lasted from 7 p. m. to 8 p. m. (S. T.).

The main conclusions are summarised below :—

(1) The total population enumerated in all the 50 chawls together was 14,652 against 15,546 in 1914, that is 894 less.

(2) The number of children upto two years of age enumerated was 729 against 676 in the preceding year, *i.e.*, 53 more. Among them the births of 383 children were found to have been registered as born in Bombay, being equal to a ratio of 26·13 per 1,000 of population in the selected chawls.

In 1914 the corresponding number of births registered was 390 and the ratio to the enumerated population 25·08.

This is no doubt much higher than the ratio of births registered in the whole City, which was 20·09 for 1914, and the average of the preceding quinquennium (1910 to 1914), namely, 20·86. But it must be remembered that while the latter ratio is based on the total population of all degrees of social status, the ratio yielded by the child Census is based on some of the poorer population only.

(3) The proportion of children enumerated upto two years of age to the total population was 4·9 per cent. against 4·3 per cent. in 1914 ; the proportion of children upto that age in the City to the total population by the general (decennial) Census of 1911 was 2·2.

(4) 340 out of 729 children enumerated were born out of Bombay, *i.e.*, 46·6 per cent. against 41·5 in 1914 ; the average number of such children for the preceding five years is 33·4 per cent. of the total number of children upto two years of age by the Census of 1911.

Of the 389 children ascertained to have been born in Bombay, 383 or 98·4 per cent. were registered and 6 or 1·5 escaped registration.

In 1914 it was found that 390 out of 395 births were registered, the proportion of registration being 98·7 ; 5 children or 1·2 having escaped registration.

The facts noted under (3) point to the existence in the City, on 28th May last, of a larger proportion of children upto two years of age (4·9) than that revealed by the Census of 1914 (4·3) or the decennial general Census of 1911 (2·2), though the population of the chawls was nearly 900 less.

Although our object was chiefly to check the registration of births and ascertain the number of out-born children compared to the number of children born in Bombay, it is necessary to mention in this connection that 418 rooms were found to be vacant in all the 50 chawls in 1915; the number of such rooms in 1914 was not recorded, and though a certain number of unoccupied rooms may be assumed, it could not possibly have been so large.

The reduction in the population of the chawls, as compared with 1914, appears from the figures to be considerable and this is, no doubt, chiefly to be explained by the number of vacant rooms noticed. But it is, not unlikely that the enumeration of total population of some of the chawls was defective in that it was started and finished considerably before the operation was timed to commence, namely, 7 p.m. (S. T.), as I noticed in some of the chawls I visited. This must have meant in effect the exclusion of quite a number of adults who did not return home to their rooms before 7 p.m. The accuracy of the figure of total population in the chawls is therefore open to doubt. This view is strengthened by the difficulty of reconciling this comparative decrease in the enumerated population with the increase recorded in the number of children up to 2 years of age found in the chawls at the time.

Facts noted under (4) point to the existence in the City of a larger proportion of out-born children than in 1914 or the average of the preceding five years; this coincides with the results of the enquiries continued throughout the year by the District Nurses which show that a larger proportion of women go out of Bombay every year for delivery.

The proportion of births that escaped registration was found to be 1·54 per cent. against 1·25 in 1914 and 9·5 in 1913.

Calculation of the Birth rate.

The birth-rate has been stated above in terms of the total population of all ages; this is what is called the crude birth-rate and is the appropriate form of statement for recording the net result of the various factors governing reproduction in a community: and is therefore, in conjunction with the crude death-rate, the appropriate means of measuring natural increase.

But the crude birth-rate will appear to be of little value when we bear in mind the great preponderance of males, the large proportion of population below the age of 15 years and of widows in an Oriental City who can never re-marry (the Census of 1911 showing 31,685 widows of conceptive ages), as also the dimmution of fertility with advancing age.

By far the most valuable statement, therefore, is that based on the number of potential mothers, *i.e.*, female population of conceptive ages (15 to 45 years), though their fertility is but one of the several factors governing reproduction. If, therefore, the birth-rate for 1915 is calculated on the number of possible mothers disclosed by the Census of 1911, it works out to 96·16 against 94·37 in 1914 and 94·20 in 1913 and 93·92 in 1906, when the number of possible mothers was greater than in 1911. The results of calculating the proportion of registered births (1) to the total population of both sexes and all ages and (2) to the female population aged 15-45 years are shown in the following table :—

CENSUS YEAR.	Proportion per cent. of women aged 15—45 years in the total population of both sexes and all ages.	Proportion per cent. of married women in female population aged 15—45 years.	Of the married women aged 15—45 years, the proportion per cent. of four groups of ages.				Persons married to 1,000 marriageable persons in the population.	Birth-rate calculated		
			Aged 15—20 years.	Aged 20—25 years.	Aged 25—35 years.	Aged 35—45 years.		On the number of Births registered in	Per 1,000 of total population at all ages.	Per 1,000 of female population aged 15—45 years.
1901	22·05	77·68	18·55	25·80	39·85	16·49	714·34	1901	17·42	79·00
1906	22·61	77·04	17·62	27·69	39·89	14·77	738·45	1906	21·24	93·90
1911	21·28	76·75	18·25	27·90	39·69	14·75	716·75	1915	20·47	96·16

Besides the factors which influence in common the birth-rate of every community, there are some peculiar to this City :—(1) the fairly well-established custom of sending prospective mothers home to their parents, where the infant has a better chance of life, so that there is in the City a number of children of mothers belonging to the City but born out-side it and therefore not registered; (2) the omission of parents or relatives to register births, through ignorance or neglect so that there is a certain number of children who have escaped registration.

During 1915, 6,478 of such children under one year of age were primarily vaccinated in Bombay; but a large number must have escaped vaccination either by death or postponement. It will be seen from table 22, appended to the report, that 81·06 per cent. of the births registered were vaccinated during the year; it may, therefore, be assumed that 81·06 per cent. of unregistered children also were vaccinated, the balance of 18·94 per cent. having escaped vaccination either by death or postponement. Corrected number of Births and Birth-rate.

The infant population in the City during the year under report works out as follows:—

Number of Births registered	20,052
Number of Births unregistered (of children primarily vaccinated in Bombay)	6,478
Number of Births unregistered and which escaped vaccination (being 18·94 per cent.)...	1,513
Total number of Births ...	28,043

giving the birth-rate of 28·63 per 1,000 of population.

No prosecution under Section 446 (1) of the City of Bombay Municipal Act was instituted during the year for failure to notify the occurrence of births to this Department. Prosecution for omission to report births.

TABLE OF BIRTH-RATES FOR THE DIFFERENT RACES OF THE CITY FOR 1914—1915.

RACE OR CASTE.		Population by the Census of 1911.	Birth-rate for 1914.	Birth-rate for 1915.
Hindus.	Jains	20,460	16·91	15·24
	Brahmins	53,656	8·47	9·95
	Lingaits	1,179	20·35	2·54
	Bhatias	7,780	15·93	15·42
	Hindus of other Castes	547,192	16·65	16·74
	Hindus, Low-Caste	54,235	52·30	55·83
Mussalmans (including Negro-Africans)		179,346	20·80	21·16
Parsees		50,931	27·13	28·89
Jews		6,597	36·07	34·56
Native Christians		41,273	26·40	27·66
Eurasians		4,188	31·27	34·14
Europeans		11,894	15·80	14·88
Buddhists		578	10·38	27·68
Other and Unknown Castes		136	102·94	147·05
Total		979,445	20·09	20·47

The birth-rate registered for the entire population was 20·47; this was higher than in 1909 (20·28) and 1910 (20·39), also than in 1913 (20·05) and 1914 (20·09) but lower than in 1911 (21·82) and 1912 (21·96). Birth-rate by Races.

Taking the Hindu communities as a whole, the birth-rate registered by them works out to 19·22 against 18·84 in 1914 and 19·07 in 1913.

As in the preceding year (52·30), the highest rate (55·83) was registered by Hindus low caste; the next highest by Jews 34·56 against 36·07 in 1914; the lowest rate (2·54) was recorded by Lingaits against 20·35 in 1914. Brahmins showed an increase in the birth-rate;

9·95 against 8·47 in 1914 ; so also, Buddhists, Eurasians, Native Christians, Mussalmans (including Negro-Africans) ; 27·68 being registered among Buddhists, 34·14 among Eurasians, 27·66 among Native Christians, and 21·16 among Mussalmans (including Negro-Africans), against 10·38, 31·27, 26·40, 20·80, respectively, in 1914.

The other races recorded a decline : Europeans from 15·80 to 14·88, Jews from 36·07 to 34·56, and Parsees from 27·13 to 26·89.

TABLE OF BIRTH-RATES FOR THE DIFFERENT SECTIONS IN THE CITY FOR 1914-1915.

Ward.	Sections.	Population by the Census of 1911.	Birth-rate for 1914.	Birth-rate for 1915.
A	Upper Colaba	1,557	89·27	60·37
	Middle and Lower Colaba	19,679	10·82	13·05
	Fort, Southern	3,462	6·64	7·79
	Fort, Northern	25,400	20·35	23·11
	Esplanade	17,761	11·20	14·52
B	Mandvi	33,202	11·74	12·07
	Chukla	24,231	16·59	18·90
	Umarkhadi	45,679	24·84	25·13
	Dongri	27,246	15·89	16·51
C	Market	30,172	10·00	9·57
	Dhobi Talao	38,684	21·92	21·11
	Fanaswadi	27,403	22·29	21·27
	Bhuleshwar	36,459	16·12	16·44
	Khara Talao	22,979	20·40	22·28
	Kumbharwada	27,703	19·63	19·85
D	Khetwadi	31,937	21·38	21·54
	Girgaum	30,779	19·65	21·59
	Chowpati	11,397	20·70	23·60
	Walkeshwar	10,640	21·24	21·24
	Mahalakshmi	26,302	22·08	23·57
E	Mazagon	30,075	21·94	25·46
	Tarwadi	28,424	30·88	30·25
	Second Nagpada	21,700	24·23	22·62
	Kamathipura	36,751	21·76	22·25
	Tardeo	27,758	24·64	22·04
	Byculla	75,348	24·69	24·31
	First Nagpada	6,414	26·97	23·21
F	Parel	45,474	18·01	19·26
	Sewri	19,067	22·49	22·86
	Sion	30,680	27·12	26·49
G	Mahim	30,492	29·51	29·90
	Worli	89,611	21·37	21·58
	Harbour, Docks, Railways and Homeless	44,979	·02	.....
	Total	979,445	20·09	20·47

Birth rate by Sections.

In the discussion of birth-rates of different Sections of the City, it is necessary to bear in mind that these ratios, being based on the total population of both sexes, cannot obviously be of much value for purposes of comparison, owing to the uneven distribution of women and married women of fertile age, which must very largely account for the advantage which some Sections may appear to exhibit over others. The recorded birth-rate for the whole City is 20·47 and the Sections with appreciably lower rates are Middle and Lower Colaba (13·05), Esplanade (14·52), Mandvi (12·07), Market (9·57), Bhuleshwar (16·44) and Parel (19·26).

As in previous years, the highest birth-rate was recorded in Upper Colaba (60·37) which however is much lower than that recorded in 1914 (89·27); the next highest is 30·25 in Tarwadi and 29·90 in Mahim. The lowest rate 7·79 was recorded for Fort Southern as in previous years ; this is however purely a business locality and not a residential one; the next lowest is 9·57 for Market Section.

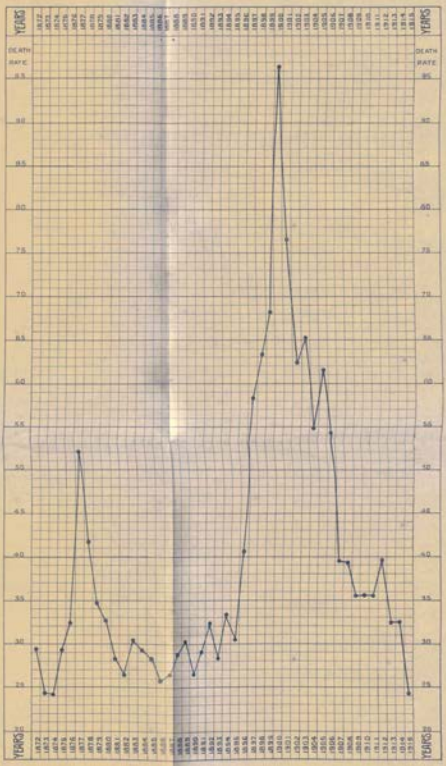
Total Mortality and the Death-rate.

With a rainfall which, though it could not be called abundant was much above the normal (+6·53), the health conditions of the City during the year under report, as measured by the total death-rate and the incidence of principal diseases, stand out as the best that have so far been recorded.

DIAGRAM

DEATH-RATE IN BOMBAY

1872-1915.



The number of deaths registered from all causes was 23,681, against 31,853 being 8,172 less than in the immediately preceding year and the lowest recorded since 1893 (23,142) when the population (8,21,764) numbered 1,57,681 less than in the year under notice. But comparisons of the total number of deaths in a community over a series of years are not of much value for statistical purposes, as they take no note of the increase in the population that may have occurred; they should therefore be based on the calculation of rates per 1,000 of population per annum.

The death-rate in 1915 per 1,000 of the Census population (1911) was 24·17 against 32·52 in 1914 and 28·16 in 1893 on the population enumerated in 1891. Thus it will be found that while the total mortality in 1915 was 539 higher than in 1893, the death-rate was 3·99 lower than in the latter year, and the lowest since 1874 (24·04) as will be seen from the sub-joined table:—

BIRTHS, MORTALITY AND DEATH-RATE IN BOMBAY CITY, 1872-1915.

Year.	Excluding Still-born.		
	Births.	Deaths.	Death-rate.
1872	13,135	18,990	29·46
1873	12,722	15,665	24·30
1874	12,835	15,496	24·04
1875	13,391	18,734	29·07
1876	13,625	20,783	32·25
1877	13,886	33,511	52·00
1878	14,038	26,999	41·89
1879	14,559	22,527	34·95
1880	17,247	21,146	32·81
1881	16,638	21,856	28·26
1882	15,366	20,468	26·47
1883	15,182	23,530	30·43
1884	14,637	22,542	29·13
1885	14,964	21,850	28·25
1886	14,909	20,074	25·96
1887	15,429	20,513	26·53
1888	16,760	22,421	28·99
1889	15,493	23,378	30·23
1890	15,568	20,534	26·55
1891	15,518	23,847	29·01
1892	15,485	26,518	32·26
1893	15,218	23,142	28·16
1894	15,058	27,330	33·25
1895	15,684	25,081	30·52
1896	15,890	33,451	40·71
1897	9,336	47,896	58·28
1898	10,784	51,961	63·23
1899	10,624	56,434	68·07
1900	12,688	79,350	96·55
1901	13,520	59,495	76·66
1902	17,599	48,414	62·38
1903	16,375	50,513	65·09
1904	19,556	42,676	54·99
1905	19,141	47,762	61·54
1906	20,769	52,874	54·07
1907	19,535	38,687	39·56
1908	20,166	38,271	39·13
1909	19,839	34,878	35·66
1910	19,939	34,933	35·72
1911	21,376	34,961	35·69
1912	21,518	38,954	39·77
1913	19,644	31,806	32·47
1914	19,679	31,853	32·52
1915	20,052	23,681	24·17

The mortality of the City steadily fell from 79,350 in 1900 (rate 96·55) to 59,495 in 1901 (76·66), to 52,874 in 1906 (54·07), to 34,878 in 1909 (35·66); then with a slight

upward trend it rose to 38,954 in 1912 (39·77) and suddenly dropped to 31,806 in 1913 (32·47) and from 31,853 in 1914 (32·52) it declined to 23,681 in 1915 (24·17).

This remarkable fall in mortality from 79,350 in 1900 to 23,681 is equivalent to a reduction in the death-rate of 72·38 per 1,000 living, showing a saving to the City of 55,669 lives.

The figure 23,681, however, represents the gross mortality of the City, and is subject to correction. It is necessary, on the one hand, to exclude all deaths among persons newly arrived into the City and not belonging to it; and, on the other, to include all deaths occurring among those who, belonging to it, died elsewhere. The resulting mortality has, in my previous reports, been termed the corrected mortality. The expression may however at first sight seem ambiguous or open to objection, as mortality is generally corrected for differences of sex and age-constitution of the population; but it may also be corrected for other considerations, such as the exclusion of those who, not belonging to the City, helped to swell its mortality returns and the inclusion of those who, belonging to it, went out to die either (1) to their homes up-country, or (2) to the numerous out-lying sanatoria. Such adjustment is, quite as truly as the other, a process of correction and quite as necessary and the result, to avoid possible misunderstanding, may be termed *effective* mortality. Adopting the suggestion of the Standing Committee of the Corporation made in their review of my report for 1910, letters of inquiry were, as in previous years, addressed to the Authorities in charge of the following out-lying Sanatoria and Convalescent Homes with a view to ascertaining the number of deaths among those who belonged to Bombay, and went to the Institutions for treatment or change of air—(1) Deolali, (2) and (3) Nasik, (4) Dumas (Surat), (5) Khandala, (6) (Poona), (7) Coorla, (8) Dharampore (Simla Hills), (9) Panchgani, (10) Karla, (11) Lonavala, and (12) Bandra.

The replies received from 9 of these show that 5 deaths among such persons occurred during the year 1915.

It is obviously impossible to get at the number of those who died in their homes up country; for we have no record of such deaths nor can one be compiled. On the other hand, the number of deaths among new arrivals not belonging to the City was 601.

Applying this correction, the effective mortality of the City as based on the available data works out to (23,681+5—601=)23,085, giving the ratio of 23·56 per 1,000 of the population.

Such an estimate of the City's mortality is desirable, as it marks a greater approximamation to the truth than the bare statement of the number of deaths in the community. This approximation would be still closer, but for the absence of any data regarding deaths occurred up-country among the inhabitants of this City; this absence largely accounts for, if it did not also accentuate, the difference between the factors of inclusion and exclusion, though, as an off-set against the possible reduction due to the omission of such deaths may be mentioned those occurring among the large number who are attracted to the metropolis for various reasons—visitors bent on pleasure or business, vagrants, labourers in search of work, sick persons in search of expert medical advice and others who come to live with their relations for a few days and though not properly units of the population, are counted among them when they happen to die after a stay of more than ten days.

It is however not improbable that these more or less balance each other and the death-rate is not materially affected by the want of either figure.

Mortality by Sex and Age-group.

The following table of mortality shows the proportional contribution to the total result under each age-group in the two sexes.

TABLE OF PERCENTAGES TO THE TOTAL MORTALITY BY AGE-PERIOD IN 1913, 1914 AND 1915.

Age-Period.	1913.		1914.		1915.					
					MALES.		FEMALES.		PERSONS.	
	Total Mortality.	Percentage.	Total Mortality.	Percentage.	No. of deaths.	Percentage.	No. of deaths.	Percentage.	No. of deaths.	Percentage.
Under 1 year... ...	7,488	23·54	7,680	23·79	3,508	26·94	3,094	29·01	6,602	27·87
1 to 5 years ...	3,661	11·51	3,775	11·85	1,190	9·13	1,345	12·51	2,535	10·70
5 to 10 ,, ...	1,074	3·37	1,198	3·76	309	2·37	414	3·88	723	3·05
10 to 15 ,, ...	1,104	3·47	1,040	3·26	289	2·21	344	3·22	633	2·67
15 to 20 ,, ...	2,331	7·32	2,421	7·60	767	5·89	786	7·37	1,553	6·55
20 to 30 ,, ...	5,474	17·21	5,367	16·84	2,203	16·92	1,585	14·86	3,788	15·99
30 to 40 ,, ...	3,405	10·70	3,332	10·46	1,512	11·61	832	7·80	2,344	9·89
40 to 50 ,, ...	2,300	7·23	2,372	7·44	1,198	9·20	574	5·38	1,772	7·48
50 to 60 ,, ...	2,170	6·82	2,011	6·31	997	7·65	625	5·86	1,622	6·84
60 years and upwards.	2,794	8·78	2,750	8·63	1,043	8·01	1,062	9·96	2,105	8·88
Unspecified Ages ...	5	0·01	7	·02	4	·03	.....	.....	4	·01
Total	31,806	100·00	31,853	100·00	13,020	100·00	10,661	100·00	23,681	100·00

It will be seen from the above table that of the total number of 26,681 deaths in the year under report, 13,020 were among males and 10,661 among females against 17,910 male and 13,943 female deaths in 1914. The male death-rate therefore works out to 20·33 and the female to 31·43 per 1,000 of sex population against 27·97 and 41·11 respectively during 1914.

This inequality of rates of mortality among males and females is largely to be accounted for by the preponderance of males who form nearly two-thirds of the population.

As in previous years, there is an excess of female deaths over male in all age-periods upto 20 years of age, (excepting that under 1 year), and under that of 60 years and beyond in respect to other age-periods this predominance is reversed. It will also be observed that in the age-groups of 30—40 and 40—50 the male mortality (1,512 and 1,198) is almost the double of that among females (832 and 574 respectively).

The highest percentage of deaths to the total mortality in the male (26·94) as well as in the female (29·01) and the entire population (27·87) occurred, as usual, among children in the first year of life; the next highest (male 16·92, female 14·86 and the entire population 15·99) was recorded between the ages of 20—30 years. This uniformity in the excessive mortality in the two sexes is peculiar to these periods only; the next highest percentage of deaths (11·61) occurred among males in the age-group of 30—40 years, and among females (12·51) in the age-period of 1—5 years.

The lowest percentage of mortality among males (2·21) as well as among females (3·22), and in the entire population (2·67), occurred in the age-period of 10—15 years.

Infant Mortality.

The total mortality among infants or children upto one year of age during the year under review was 6,602, being 978 less than in the last year and the lowest on record since 1893 (6,446) excepting 1898 (6,279).

The percentage of infant mortality to the total mortality at all ages during the year was 27·87 against 23·79 in 1914. Although the percentage was a trifle higher than in 1914, the death-rate among infants per 1,000 of births registered was 329·2 against 385·1 in 1914.

Calculated per 1,000 of births registered, infant mortality presents a striking record of progressive decline in recent years. It touched the highest point in 1900, registering the rate of 1,063·3; in the following year it dropped to 574·5, which was the next highest ratio. In the years that followed, it never attained to the level of either, but with considerable variations exhibited a substantial reduction, until in 1915 the lowest recorded ratio (329·2) was reached.

From 459·2 in 1904, the rate of infant mortality fell to 423·6 in 1907 and 404·7 in 1909 and 379·8 in 1911 and finally to 329·2 in 1915; this is less than a third of the ratio in 1900 (1,063·3), the reduction achieved during the period (1900-1915) being equal to 734·1.

Infant mortality has been calculated above on the actual number of births registered; but for a correct estimate, it should be calculated on the corrected number of births, so as to include infants who died during the year without their births being registered. The corrected number of births, as we have seen above, works out to 28,043 and therefore gives an infant mortality equal to the ratio of 235·4 per 1,000 against 268·74 in 1913 and 277·05 in 1914.

TABLE OF INFANT MORTALITY BY MONTHS IN 1915 AND 1914.

MONTHS.	1915.						1914.
	Debility.	Nervous Diseases.	Respiratory Diseases.	All Causes.			All Causes.
				Males.	Females.	Total.	
January	131	72	134	229	192	421	661
February	112	61	105	199	170	369	614
March	126	75	164	282	186	468	675
April	151	68	180	280	234	514	659
May	151	83	162	271	266	537	702
June	127	80	184	260	252	512	685
July	175	99	175	314	284	598	741
August	211	84	175	354	311	665	770
September	242	96	155	345	313	658	572
October	222	94	222	348	313	661	562
November	167	85	162	302	257	559	468
December	187	108	188	324	316	640	471
Total	2,002	1,006	2,006	3,508	3,024	6,602	7,580

Infant Mortality by Months.

The foregoing table exhibits the distribution of infant mortality by months, during the year under report; three columns giving the number of deaths from causes most fatal to children have been added, as they serve to explain the monthly variations and their extent. Compared with 1914, infant mortality in 1915 was lower month for month, from January (—240) till it reached the maximum, as usual, in August (—105); the aggregate decrease during these months was 1,423, which in consequence of the reversed preponderance during the following months was reduced to 978 at the end of the year. The lowest infant mortality was registered in the month of February (369); this was 99 less than the lowest monthly figure for 1914 which was recorded in November (468). During the next three months it rose steadily to 537 in May, then fell to 512 in June, and then rose again to 665 in August; thereafter a rise and a fall was recorded in each alternate month till the end of the year.

Out of the total decrease of 978 deaths in 1915 as compared with 1914, nearly 42 per cent. (or 419 fewer deaths) was recorded under Respiratory Diseases; 27 per cent. (or 265 deaths) under Nervous Diseases (which include Infantile Convulsions); 19 per cent. (or 185 deaths) under Debility.

INFANT MORTALITY FROM PRINCIPAL CAUSES FROM 1909 TO 1915.

Cause of Death.	1909.	1910.	1911.	1912.	1913.	1914.	Average (1910 to 1914).	1915.	Increase or Decrease.
Small-pox	134	264	98	274	55	60	150	64	— 86
Measles	27	56	233	82	66	82	104	34	— 70
All Fevers...	182	238	251	277	201	163	226	170	— 56
Diarrhœa and Dysentery ...	611	674	581	900	615	579	670	501	— 169
Premature Birth	151	147	175	219	181	187	182	212	+ 30
Debility	2,626	2,567	2,364	2,581	2,207	2,187	2,381	2,002	— 379
Diseases of the Nervous System.	1,466	1,402	1,400	1,570	1,278	1,271	1,384	1,006	— 378
Do. do. Respiratory System.	2,231	2,292	2,364	2,877	2,113	2,425	2,414	2,006	— 408
All Causes	8,030	8,253	8,120	9,646	7,488	7,580	8,217	6,602	— 1,615

Infant Mortality from Principal Causes.

It will be seen from the foregoing table that in the year under review, the mortality from Debility and Diseases of the Nervous and Respiratory Systems aggregated nearly 75 per cent. (or 5,014 deaths) of the total infant mortality (6,602) against nearly 77 per cent. in 1914, (5,883 deaths). Generally speaking, these are a group of causes which have reference to the social environment and economic condition of the parents, as regards the home and its surroundings, occupation of mothers entailing hard work, habits and poverty, all of which affect the mother during pregnancy and influence the health of the child before and after birth, and aided by the unhygienic conditions in which a large proportion of the infants are born, help to swell the number of those who come into the world only to die.

Compared with the averages of the preceding five years, a striking reduction in the infant mortality is noticeable under the following causes: Diseases of the Respiratory System (—408), Debility (—379), Diseases of the Nervous System (—378), Diarrhœa and Dysentery (—169), Small-pox (—86), Measles (—70), All fevers (—56); the total result being a saving of 1,615 infants.

The mortality among children born prematurely (212) was however a little higher than in 1914 (187) and exceeded the last quinquennial average by 30; while that from Debility and the Diseases of the Nervous and Respiratory Systems was the lowest.

Infant Mortality by Age-periods.

The following table classifies the mortality from principal causes among infants arranged under the three age-periods of 1-30 days, 1-6 months and 7-12 months during 1915; the corresponding figures for 1914 have been inserted for comparison.

TABLE OF DEATHS AMONG INFANTS FROM PRINCIPAL CAUSES BY AGE-PERIODS IN 1915 AND 1914.

Age-Period.	Year.	Small-pox.	Measles.	Malaria.	Ague and Remittent Fever.	Diarrhœa and Dysentery.	Premature Birth.	Debility.	Nervous System.	Respiratory System.	All Causes.	Percentage of deaths in each age-period to total deaths under 1 year of age.
1 to 30 days ...	1915	2	...	...	17	21	207	1,768	276	63	2,417	36·61
	1914	1	...	...	23	30	184	1,914	294	67	2,588	34·14
1 to 6 months ...	1915	30	8	3	59	146	4	212	530	857	1,990	30·34
	1914	36	18	3	56	158	3	232	683	1,040	2,360	31·13
7 to 12 months ...	1915	32	26	4	86	334	1	22	200	1,086	2,195	33·24
	1914	23	64	7	72	391	...	41	294	1,318	2,632	34·72
Total ...	1915	64	34	7	162	501	212	2,002	1,006	2,006	6,602	...
	1914	60	82	10	151	579	187	2,187	1,271	2,425	7,580	...

On examining the figures it will be noticed that Small-pox (32), Measles (26), Fevers (90), Diarrhœal Diseases (334), and Diseases of the Respiratory System (1,086) were most fatal to infants in the age-period of 7-12 months; while deaths due to Small-pox (30), Diseases of the Respiratory System (857), Diseases of the Nervous System (530) and Diarrhœal Diseases (146) were most numerous in the age-group of 1 to 6 months; as those due to Debility were in the first 30 days. Out of 212 deaths which occurred in the year from immaturity at birth, 207 were in the first 30 days of life and the remaining five in the next two age-periods together.

Further investigation of the subject may be continued with the help of the following table which shows the percentage or proportion of mortality under each principal cause of death to the total mortality from all causes among infants in each of the three age-groups.

TABLE OF PERCENTAGES OF INFANT DEATHS FROM PRINCIPAL CAUSES IN 1915.

Age-Period.	Small-pox.	Measles.	Malaria.	Ague and Remittent Fever.	Diarrhœa and Dysentery.	Premature Birth.	Debility.	Nervous System.	Respiratory System.	All Causes.
1 to 30 days	0·08	...	...	0·70	0·86	8·55	73·14	11·41	2·60	36·61
1 to 6 months	1·50	0·40	0·15	2·96	7·33	0·20	10·65	26·63	43·06	30·14
7 to 12 months	1·45	1·18	0·18	3·91	15·21	0·04	1·00	9·11	49·47	33·24
Total ...	0·96	0·51	0·10	2·45	7·58	3·21	30·32	15·23	30·38	...

Examining the foregoing table with the aid of that preceding it, it will be observed that out of 20,052 children registered as born during the year, 2,417 or 171 less than in 1914 died within the first month of life; for nearly three-fourths of these (1,768 or 73·14 per cent. in 1914), the cause of death assigned was Debility, that is want of vitality; immaturity at birth, wilful or ignorant neglect and the methods adopted by the unskilled or untrained women attending the labour; *(ii)* 1,990 or 370 less than in 1914 died before attaining the age of six months; the cause of death in the descending order of incidence being 43·06 Diseases of the Respiratory System (against 44·06 in 1914), 26·63 Diseases of the Nervous System (against 28·94 in 1914); 10·65 Debility (against 9·83 in 1914) and 7·33 Diarrhœa and Dysentery (against 6·69 in 1914); *(iii)* 2,195 of the children or 437 less than in 1914 died before attaining the age of twelve months; the cause of death being 49·47 Diseases of the Respiratory System, (against 50·07 in 1914), 15·21 Diarrhœa and Dysentery (against 14·85 in 1914) and 9·11 Diseases of the Nervous System against (11·16 in 1914).

It will be seen that out of the total number of deaths among children under one year of age, more than 36 per cent. occurred in the first month of life, and, further, that of the deaths at this early period of life, nearly three-fourths are due to Debility; and in the second and third groups, the highest proportion of deaths is associated with the Diseases of the Respiratory System. The next most fatal cause is the Diseases of the Nervous System in the first and second groups and Diarrhœa and Dysentery in the third group, all of which signify exposure and defective feeding.

Infant Mortality by Race or Caste.

The following table gives the number of deaths among infants and the births registered in the different races of the population, and the death-rate calculated per 1,000 of births registered in the particular race or caste: corresponding figures for 1914 have been added for comparison.

TABLE OF MORTALITY AMONG INFANTS AND DEATH-RATE PER 1,000 OF BIRTHS REGISTERED IN EACH RACE IN 1914 AND 1915.

	RACE OR CASTE.	1914.			1915.		
		Deaths under 1 year.	Number of Births registered.	Infant mortality per 1,000 of Births in the caste.	Deaths under 1 year.	Number of Births registered.	Infant mortality per 1,000 of Births in the caste.
Hindus.	Jains	285	346	823·6	235	312	752·20
	Brahmins	250	455	549·4	286	534	535·58
	Lingaits	33	24	1,375·0	26	3	8,666·00
	Bhatias	51	124	410·06	47	120	391·66
	Hindus of other Castes ...	3,391	9,112	372·1	2,240	9,163	320·86
	Hindus, Low-Caste ...	1,284	2,837	452·5	1,082	3,028	357·33
	Mussalmans (including Negro-Africans) ...	1,475	3,732	391·0	1,274	3,796	335·61
	Parsees	240	1,382	173·6	210	1,370	153·28
	Jews	38	238	159·6	36	228	157·89
	Native Christians	434	1,090	398·1	384	1,142	336·25
	Eurasians...	32	131	244·2	26	143	181·81
	Europeans	39	188	207·4	27	177	152·54
	Buddhists	2	6	333·3	2	16	125·00
	Other and unknown Castes	26	14	1,857·1	27	20	1,350·00
	Total ...	7,580	19,679	385·1	6,602	20,052	329·24

As compared with 1914 a vast improvement is noticeable in the infantile death-rate of all communities excepting Lingaits, who form a very small and fluctuating portion of the population; the death-rate among them being 8,666·00 the number of infant deaths registered among them being 26 and the number of births only 3 during the year. Among Hindus of all castes and Mussalmans who together form the bulk of the City's population, the ratios stand as under:—

	1914	*1915*	Decrease.
Hindus	410·4	350·9	69·5
Mussalmans ...	391·0	335·61	55·39

The infantile death-rate among Parsees dropped during the year to 153·28 from 173·6 in 1914 and among Europeans to 152·5 from 207·4 and Eurasians to 181·8 from 244·2.

The infantile death-rate for the whole City, calculated on the total number of registered births, was 329·24. The highest death-rate, calculating for different castes on the number of births registered among them, was recorded among Lingaits (8,666·00) during the year under review, against 1,375·0 in 1914 and the lowest among Buddhists (125·00) against 159·6 among Jews in 1914. Buddhists like Lingaits are but an inconsiderable portion of the whole population.

In the ascending order of incidence, after Buddhists stand Europeans (152·54), Parsees (153·28), Jews (157·89), Eurasians (181·81), Hindus of other castes (320·86), Mussalmans (including Negro-Africans) (335·61), Native Christians (336·25), Hindus low caste (357·33), Bhatias (391·66), Brahmins (535·58), and Jains (752·20).

The ratios among principal communities during 1915 and the preceding five years are given in the following table :—

INFANT MORTALITY PER 1,000 OF BIRTHS REGISTERED IN THE CASTE.

—	1910.	1911.	1912.	1913.	1914.	1915.
(1) Hindus (All Castes)	431·2	407·0	483·7	408·3	410·4	350·9
(2) Mussalmans (including Negro-Africans).	441·7	388·5	421·6	369·5	391·0	335·61
(3) Parsees	271·4	186·2	206·2	188·1	173·6	153·28
(4) Jews	209·6	157·8	302·2	176·4	159·6	157·89
(5) Native Christians	432·1	344·0	462·2	419·0	398·1	333·25
(6) Europeans	228·6	173·1	267·9	151·9	207·4	152·54
(7) Eurasians	397·2	290·3	388·2	230·0	244·2	181·81

Infant Mortality by Sections.

With a view to measuring the relative incidence of infant mortality in the different Sections of the City, the following table is given, showing the ratio of infantile deaths occurring in each Section to the number of births registered in that particular Section. These rates have, however, to be accepted with caution. For apart from the irregular distribution of the female population in the different Wards of the City, such measurement of infant mortality is not altogether reliable owing to the following factors which introduce an element of error or uncertainty in the discussion of infant mortality based on the Sectional data.

The difficulties in the way of registration of all births occurring in the City, consequent on parental ignorance or neglect varying with the class of population inhabiting the different Sections; the prevailing custom of sending prospective mothers home to their native districts for confinement—resulting in an excess of infants in the City over births actually occurred and registered in it; the inflation of the infantile death-rate due to out-born infants dying in the City; the inter-sectional movement of population, making it possible for children born in one Section to die in another; and lastly the migratory habits of the higher official and the affluent classes who send out their families to the most congenial or least inconvenient latitudes during certain seasons of the year. All these causes operate in varying degrees in the different Sections of the City and influence the infantile death-rate.

The rate of infant mortality for the entire City in 1915 based on the number of births actually registered was 329·2 against 385·1 in 1914 and 381·1 in 1913; never before was such a low rate recorded. Compared with the mean of the preceding five years, the reduction is 72·9; and the Sections which showed a higher incidence of such mortality during the year under review were :—

(i) Middle and Lower Colaba (350·1) in A Ward.

(ii) All the Sections of B Ward (Mandvi 538·6, Chukla 377·7, Umarkhadi 353·6, Dongri 391·1).

(iii) Market 477·5, Bhuleshwar 345·0, Khara Talao 349·6, Kumbharwada 378·1 in C Ward.

(iv) Mazagon 332·8, Tarwadi 366·2, 2nd Nagpada 389·0, Kamathipura 343·5, Byculla 354·2 in E Ward.

(v) Worli 354·1 in G Ward.

All these Sections, with the exception of Middle and Lower Colaba, are among those with which a high rate of mortality is generally associated, being largely inhabited by the poorer and ignorant classes, living in insanitary houses and amidst unhygienic surroundings.

For, the infantile death-rate varies inversely as the social and economic condition of the people.

The whole of A Ward (with the exception of Middle and Lower Colaba) and D Ward registered a lower death-rate; as also Dhobi Talao (291·3) and Fanaswadi (267·5) in C Ward; Tardeo (310·8) and 1st Nagpada (237·5) in E Ward; Parel (320·7), Sewri 302·7, and Sion (270·6) in F Ward and Mahim (248·9) in G Ward.

The lowest ratio (148·1) was recorded in Fort Southern which, however, is mostly a business locality and not residential; and the highest (538·6) in Mandvi whose population is 33,202 with a density of 201·6 per acre.

Compared with last year, all the Sections of the City exhibit a considerable reduction in the death-rate except Upper Colaba which shows an enhancement from 64·7 to 191·4, and Walkeshwar which registered 283·1 against 256·6 in 1914.

STATEMENT OF THE RATIO OF DEATHS AMONG CHILDREN UNDER 1 YEAR PER 1,000 OF BIRTHS REGISTERED IN EACH SECTION IN 1914 AND 1915.

Ward.	Sections.	1914.	1915.	Ward.	Sections.	1914.	1915.
A	Upper Colaba	64·7	191·4	E	Mazagon	365·2	332·8
	Middle and Lower Colaba.	577·4	350·1		Tarwadi	486·3	368·2
	Fort, Southern	434·7	148·1		Second Nagpada ...	450·5	389 0
	Fort, Northern	359·7	264·0		Kamathipura	465·0	343·5
	Esplanade	346·7	248·0		Tardeo	381·5	310 8
B	Mandvi	538·4	538·6		Byculla	395·4	354·2
	Chukla	422·8	377·7		First Nagpada	242·7	237·5
	Umarkhadi	422·0	353·6	F	Parel	406·5	320·7
	Dongri	494·2	391·1		Sewri	403·2	302·7
C	Market	480·1	477·5		Sion...	312·4	270·6
	Dhobi Talao	313·6	291·3	G	Mahim	300·0	248·9
	Panaswadi	286·4	267·5		Worli	396·8	354·1
	Bhuleshwar	423·4	345·0		Harbour, Docks, ...	...	...
	Khara Talao	466·9	349·6		Railways and Homeless		
	Kumbharwada	417·2	378·1		Total ...	385·1	329 2
D	Khetwadi	286·9	268·8				
	Girgaum	357·0	320·2				
	Chowpati	258·6	234·2				
	Walkeshwar	256·6	283·1				
	Mahalakshmi	283·9	275·8				

Infant Mortality by the number of rooms occupied.

It has been pointed out that poverty, ignorance, neglect and insanitary surroundings are the principal causes of high infant mortality. Efforts to educate the people in the principles of domestic and personal hygiene and improve their squalid environment are being continued from year to year, but the social and economic factor is one with which the Health Department can hardly hope to grapple with much hope of success, although Lady Health Visitors and midwives have been constantly visiting the houses of the poorer classes and a Maternity Home has been provided for poor women, and necessaries in the shape of milk, blanket, charpoy, etc., in the case such as cannot go to the Home. But all this can scarcely be expected to do more than merely touch the fringe of the problem; for the Census of 1911 showed that about 76 per cent. of the population of the City live in one-room tenements.

With a view to estimating, if possible, how far the economic factor was responsible for the infant mortality of the City, a new tabulation was opened during the year under report for classifying births by the number of tenements occupied by the parents as also the number of deaths that occurred among these infants. This classification covers the period of only last three months of the year and though it should be continued for a much longer period to warrant accuracy of conclusions that may be suggested, the results are interesting and are indicated in the following table.

It will be observed that of the 6,263 live births registered during the quarter, 4,412 or 70·4 per cent. occured in one-room tenements and the number of deaths among such was 1,409 or 3·9 per cent.; this proportion decreases with the number of rooms occupied; 24 per cent. in the case of two-room tenements, 19·2 in the case of 3 and 18·1 in the case of 4 or more rooms: it was highest (61·8) in the case of more than one family occupying a single room.

The condition and circumstances surrounding the people occupying the one-room tenement have been constantly pointed out and while these remain as they are, every attempt at improving the health of the women and children is very severely handicapped.

Births and Infant mortality by the number of rooms occupied in October, November and December 1915:—

	Under 1 Room.	1 Room.	2 Rooms.	3 Rooms.	4 or more rooms.	Roadside.	Hospitals.	Total for three months.
Births	78	4,412	913	280	298	30	252	6,263
Infant mortality	49	1,409	220	54	54	15	59	1,860
Infant mortality per 100 births registered.	61·8	31·9	24·0	19·2	18·1	50·0	23·3	29 6

The Bombay Sanitary Association and the Lady Willingdon Scheme.

In my last Annual Report, some details were given of the Lady Willingdon Scheme for improving the condition of women during confinement and the care of infants. It was mentioned that ten trained midwives had been appointed as Health Visitors, part of whose duty was to visit and advise poor women daily in their homes and induce prospective mothers to go to the Municipal Maternity Home for confinement; that a proper record was kept of their daily work and the latter was occasionally supervised by the Lady Voluntary Workers and the Lady President of the Section.

During the year under report, the Health Visitors paid 19,175 visits to houses and chawls and sent in weekly and monthly reports on the houses visited. The reports were seen by the Health Officer and action taken by the Health Department where necessary. 1,260 cards of inquiry were filled in by Lady Voluntary Workers.

The work hitherto done has on the whole been beneficial and steps are being taken to extend it in other directions. It is now proposed to establish two Maternity Homes, on the lines of the Municipal Maternity Home at Bellasis Road, in the poorer quarters of the City—one at Parel and the other at Colaba.

The former has since been opened; it is located at No. 89, Parel Road; it was opened by Her Excellency Lady Willingdon on 24th March 1916. Dr. Miss P. Soares, L.M. & S., is the Medical Officer in charge.

Work of Municipal Nurses and Midwives.

The following table shows the work of the ten Municipal Nurses and Midwives so far as attendance on confinements and infant visitations are concerned; they have in their daily rounds in their respective Wards to find out prospective mothers among the poor and to induce them to go to the Maternity Home for being confined and, in cases where such recourse is not sought, to attend on the women in their own homes and to repeat their visits even after the lying-in-period (every day for three days and then every alternate day for nine days); and advise mothers on the care and feeding of infants. They also visit once a week the women confined in the Maternity Home and report on the condition of mother and child to the Medical Officer in charge of the Home.

Other aspects of their work will be found dealt with later.

Summary of inquiries and of work of Municipal Nurses and Midwives.	1909.	1910.	1911.	1912.	1913.	1914.	1915.
Total number of Births (including still-born) registered	21,645	21,505	23,135	23,186	21,236	21,240	21,584
Percentage of Still-births to the total number of Births registered	8·3	7·2	7·6	7·1	7·4	7·3	7·0
Number verified by the Nurses ...	13,677	12,762	13,578	14,417	13,639	13,950	13,571
Percentage of the number verified to the total	63·1	59·3	58·7	62·1	64·2	65·6	62·8
Percentage of the confinements unattended	18·0	15·2	12·7	13·0	12·8	9·5	6·3
Percentage of the confinements attended by unskilled women	58·3	59·6	60·7	59·6	60·0	63·1	61·1
Percentage of the confinements attended by qualified Nurses (including Municipal)	11·3	12·0	13·2	13·9	14·2	13·7	15·9
Percentage of the confinements attended by Municipal Nurses	4·5	5·6	5·5	6·6	8·7	8·7	10·5
Percentage of children born in Hospitals	12·3	13·2	13·2	13·5	12·8	13·5	13·6
Percentage of children born in healthy condition	67·8	68·9	74·9	73·7	71·9	75·2	76·6
Percentage of children fed on breast.	64·9	59·8	69·7	66·5	68·4	62·7	70·1
Percentage of children dying within 30 days	12·3	11·8	11·5	11·8	10·7	10·6	9·7
Percentage of the cases where the mothers left home for work,... ...	31·3	27·9	34·4	29·7	30·6	33·0	33·2

Work of Municipal Nurses and Midwives.

From an examination of the foregoing statement, it will be observed that of the total number of 21,584 births (inclusive of still-births) registered in the City during the year under review, 13,571 or 62·8 were visited by the Municipal Nurses and Midwives, thus marking a decrease of 2·8 in the verification work compared with the preceding year; but this seems to have been made up for by the larger proportion of confinements attended, namely 10·5 which is 1·8 higher than in 1913 and 1914 and the highest since the appointment of Municipal Midwives in 1902.

The proportion of still-births declined 1·3 since 1909 and ·3 below that for 1914; the number of such births in 1915 (1,532) was the lowest since 1897 when the population by the Census of 1891 was 8,21,764 and the number of live births registered 9,336 against 9,79,445 (population) and 20,052 live births in 1915.

Compared with 1914, the proportion of births wholly unattended fell from 9·5 to 6·3 during the year under report; this is typical of the continued improvement recorded under this head in previous years and is equal to 11·7 since 1909.

The proportion of confinements attended by unskilled women, which rose steadily from 58·3 in 1909 to 60·7 in 1911 and from 59·6 in 1912 to 63·1 in 1914, received an appreciable check during 1915 as it declined to 61·1. The explanation of this reduction viewed in conjunction with the simultaneous increase of 2·2 per cent. in the proportion of confinements attended by qualified nurses (which reached the highest ratio of 15·9 during the year) is to be sought probably in further facilities, provided since January 1915, for giving trained assistance to poor women, by the employment of ten qualified Midwives under the Lady Willingdon Scheme.

The percentage of children born in Hospitals was also the highest during the year (16·6) showing an increase of 3·1 over 1914 and of 4·3 since 1909. This rise may be accounted for by the increasing number of Lying-in-Hospitals in the City and notably by the addition of the Municipal Maternity Home opened in February 1915 in which last 249 births occurred during the year under report.

The percentage of children born in a healthy condition rose by 1·4 and the proportion of children fed on breast by 7·4 compared with the preceding year.

The proportion of mothers who left home for work leaving their children to the care of others registered an increase of ·2. There was a further decline during the year in the percentage of children dying within thirty days from 10·6 in 1914 to 9·7 in the year under review.

As in previous years, the ten Municipal Nurses and Midwives were busy morning and evening visiting the homes of the poor and ignorant to find out and report births and deaths and sickness and insanitary conditions, also give homely talks and advice on cleanliness of person and home-surroundings and the precautions to be taken against infectious diseases and on the care and up-bringing of Infants.

During 1915, they paid 28,276 visits to houses, chawls and huts (against 27,660 in 1914, enquired into 3,872 cases of ordinary sickness (against 3,455 in 1914); reported 685 cases of infectious diseases and 1,821 deaths amongst the female population of the City (against 1,003 and 1,549 respectively in 1914); they also attended 1,425 confinements and ascertained 10,062 births against 1,214 confinements and 9,523 births in 1914.

Relief to Poor Women during Confinement.

In my last Annual Report, I referred to the scheme introduced in July 1913 for giving relief to poor women during confinement in the shape of necessaries and comforts such as milk, loaves, bed, blanket, charpoy, linen, &c.

Relief was dispensed under this scheme in 452 cases during the year under report against 166 in 1914.

Maternity Home for the Poor.

The Municipal Maternity Home, initiated by the Lady Willingdon Scheme and taken over by the Municipality, came to be opened by Her Excellency Lady Willingdon on 21st February 1915 at No. 125, Bellasis Road, with Dr. Miss Mary Browne, L.M. & S., as the Resident Medical Officer in charge of the Home. The first confinement case was admitted on 22nd February. In my last Annual Report, I embodied particulars of cases admitted till the end of April.

Two statements are sub-joined :—

(1) showing by months the number of cases treated and confined at the Home during the year under report; (2) showing the number of cases that came from each Ward and the Castes to which they belonged.

It will be seen from the statements that confinement cases came to the Home from all Wards in the City and from among Hindus, Mussalmans, Jews and Native Christians. Of the total number of 249 cases, 129 or 51·6 per cent. belonged to E Ward, which is the most populous of all Wards with a population of 2,26,470 or over 23 per cent. of the City's entire population. The admissions increased as the Home came to be more widely known.

STATEMENT OF CASES FROM DIFFERENT WARDS CONFINED AT THE MUNICIPAL MATERNITY HOME FROM 22ND FEBRUARY TO 31ST DECEMBER 1915.

Wards.	Hindus.	Mussalmans.	Jews.	Native Christians.	Total.
A	10	2	...	2	14
B	10	3	27	2	42
C	11	6	...	2	19
D	7	2	1	1	11
E	68	9	15	37	129
F	3	2	2	11	18
G	5	1	2	8	16
Total ...	114	25	47	63	249

STATEMENT OF CASES CONFINED MONTHLY AT THE MUNICIPAL MATERNITY HOME FROM 22ND FEBRUARY TO 31ST DECEMBER 1915.

	No. of cases confined.
22nd to 28th February and March...	21
April ...	17
May ...	18
June ...	16
July ...	27
August	23
September	25
October	35
November	40
December	27
Total ...	249

It would appear that the success which has so far attended our efforts at bringing trained attendance at child-birth within the reach of the poorer classes has been encouraging and suggests the hope that increasing advantage will continue to be taken of the Home in the future.

Mention must also be made of the efforts the Medical Officer has been making towards impressing, on the minds of Native Dais in the City, the value and necessity of proper precautions such as the cleanliness of hand and person and surroundings and the use of antiseptics—and of calling in trained help—by collecting them monthly at the Home and giving them practical instructions as to how confinements ought to be attended.

Mortality in Hospitals.

The following statement gives the number of deaths in Hospitals from various diseases during 1914 and 1915. The number of such deaths in the year under report was 2,670 against 3,208 in 1914 and their proportion to the total mortality was 11·2 against 10·07 in the previous year :—

Cause of Death.	1914.		1915.	
	Hospital Deaths.	Total Mortality.	Hospital Deaths.	Total Mortality.
Still-birth	332	1,561	343	1,532
Small-pox	75	252	106	359
Measles	3	263	5	70
Plague	370	2,941	100	599
Fevers	175	2,877	150	2,091
Cholera	47	221	3	16
Diarrhœa and Dysentery	363	3,102	276	2,195
Puerperal Septicæmia	14	291	17	220
Leprosy	50	68	49	59
Premature Birth	107	187	104	212
Other General Diseases	482	6,949	701	5,876
Diseases of the Nervous System	142	1,935	152	1,536
„ „ Circulatory System	69	298	58	339
Phthisis	359	1,334	93	1,114
Diseases of the Respiratory System	480	8,734	348	6,770
„ „ Digestive System	194	1,183	195	1,053
„ „ Urinary System	87	322	94	283
„ „ Generative System	50	147	45	127
Other Local Diseases	41	102	55	124
Injuries	98	608	117	606
Unspecified Causes	2	39	2	32
Total (except Still-born)	3,208	31,853	2,670	23,681
Percentage to the Total Mortality	10·07	...	11·2	...

Table of Deaths and Death-rate from some of the principal causes of deaths in 1915, compared with those in 1914 and the average of the preceding 10 years.

Causes of Death.	1914.		1915.		Average of 10 years (1905 to 1914).	
	Number of Deaths registered.	Rate of Mortality per 1,000 of Population.	Number of Deaths registered.	Rate of Mortality per 1,000 of Population.	Number of Deaths registered.	Rate of Mortality per 1,000 of Population.
Small-pox	252	·25	359	·36	692	·72
Measles	263	·26	70	·07	392	·40
Fevers (including Scarlet, Enteric, Malaria, Ague, Remittent and Relapsing).	2,877	2·93	2,091	2·13	3,336	3·48
Cholera	221	·22	16	·01	489	·51
Plague	2,941	3·00	599	·61	5,690	5·93
Phthisis	1,520	1·55	1,411	1·44	2,369	2·47
Diseases of the Nervous System ...	1,935	1·97	1,536	1·56	2,034	2·12
„ „ Respiratory System.	8,734	8·91	6,770	6·91	9,066	9·46
Diarrhœa	2,201	2·24	1,566	1·59	2,339	2·44
Dysentery	901	·91	629	·64	1,128	1·17
Accidents	608	·62	606	·61	703	·73
All other causes (except Still-birth).	9,400	9·59	8,028	8·19	10,259	10·70
Total ...	31,853	32·52	23,681	24·17	38,497	40·17

Mortality from Principal Causes of Death.

In considering the relative incidence of the principal causes of death to the total mortality of the City, the diseases of the Respiratory System will, as usual, appear to have levied the heaviest toll: 6,770 deaths, being 28·3 per cent. of the total mortality; while Diarrhœa and Dysentery occasioned the next higher number (2,195), being 9·26 per cent. of the total. The incidence of Plague was lower than in any previous year: 599 deaths, being 2·52 per cent. of the total mortality; so was that of Cholera (·01), as only 16 deaths were recorded during the year. Small-pox was prevalent throughout the year and caused 107 more deaths than in 1914. Measles prevailed in a very mild form and recorded 70 deaths against 263 in the preceding year.

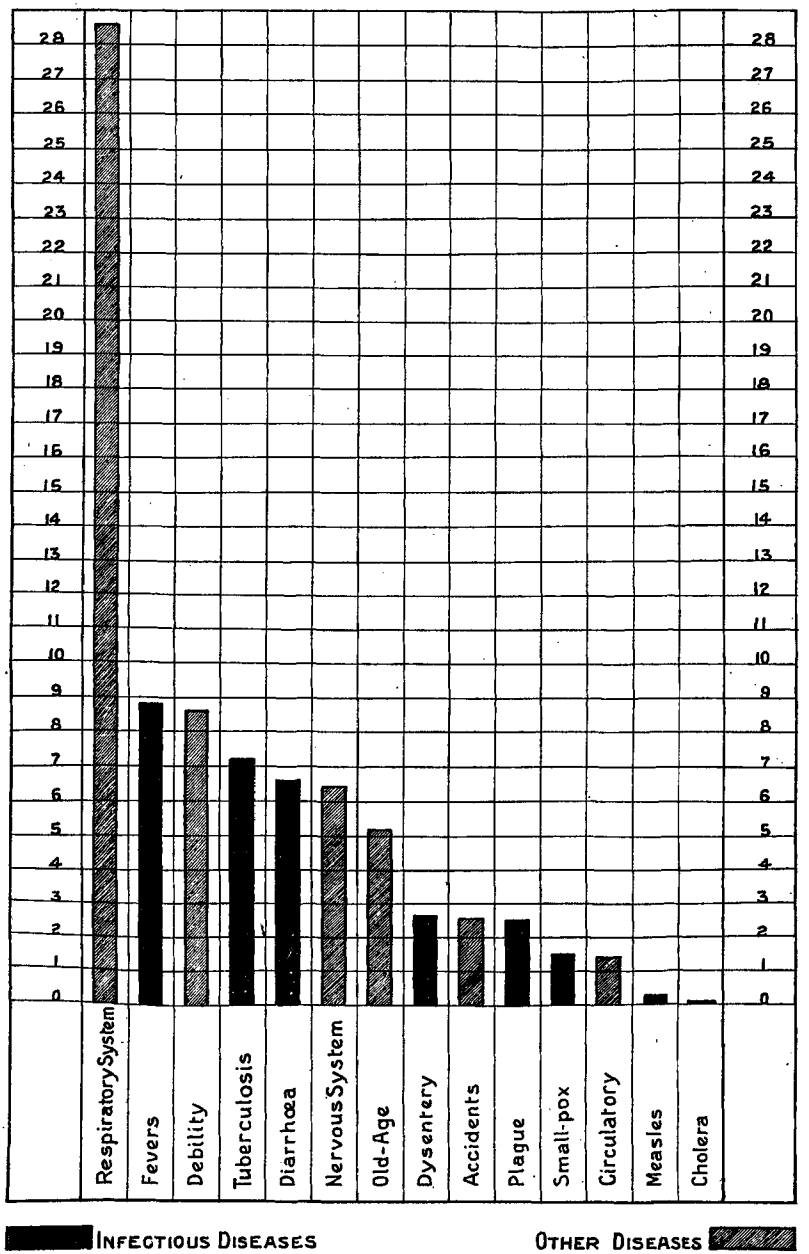
The incidence of fevers was also the mildest (2·13) ever recorded, as only 2,091 deaths were ascribed to them during the year; so also that of Phthisis, namely, 1·44. If the figures for 1915 be compared with their averages of the preceding ten years, very appreciable improvement will be noticed in respect of every cause of death; the most notable being that under Plague, the death-rate from which stood at ·61 against the decennial mean rate of 5·93; in the case of Respiratory Diseases 6·91 against 9·46; Fevers 2·13 against 3·48; Phthisis 1·44 against 2·47; Cholera ·01 against ·51; Diarrhœa 1·59 against 2·44; Dysentery ·64 against 1·17; while the total death-rate was 24·17 against the decennial mean rate of 40·17, being equal to a reduction in rate of 16·0, or in numbers to 14,816 deaths.

Mortality from Zymotic Diseases.

Large decreases were registered under almost every one of the Zymotic diseases compared with 1914—the only increases, which were inconsiderable, being in respect of the following:—Small-pox 107, Whooping Cough 2, and Diphtheria 4. The death-rate from the principal Zymotic Diseases which fell during 1905-1910 from 27·39 to 9·89 and then dropped to 7·47 in 1913, further declined during the year—notwithstanding an excess of 107 deaths from Small-pox over the figure for 1914—to (4·08); this is a striking reduction compared with the rate for the last year (7·47) and the mean-rate for the preceding three years (1912-1915), namely 8·62 and that for the preceding ten years (1905-1914) which was 12·77.

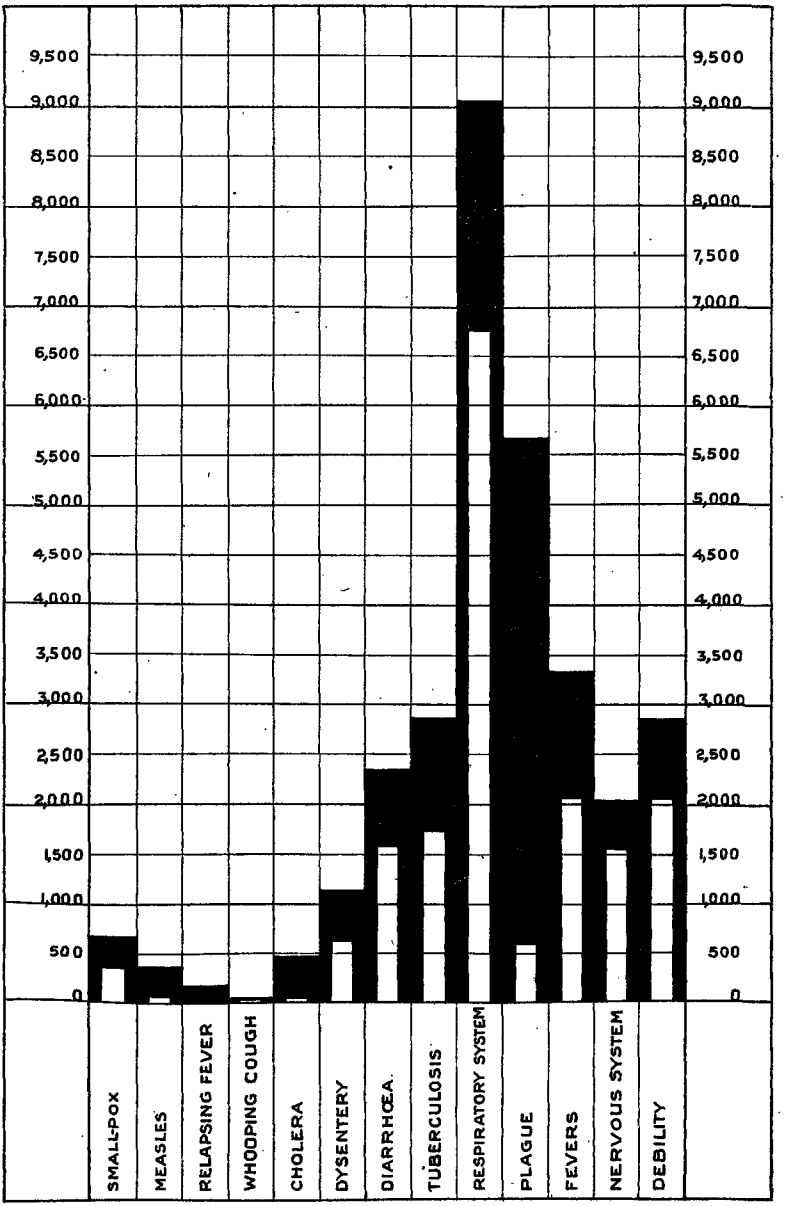
DIAGRAM

SHOWING PERCENTAGES OF DEATHS FROM PRINCIPAL CAUSES TO THE TOTAL MORTALITY IN BOMBAY IN 1915.



DIAGRAM

NUMBER OF DEATHS FROM THE ZYMOTIC & OTHER DEATH CAUSES IN 1915 COMPARED WITH THEIR AVERAGES OF THE PRECEDING 10 YEARS.



Compared with the triennial averages larger decreases are noticeable under Small-pox (—122), Measles (—161), Plague (—1823), Ague and Remittent Fever (—963), Dysentery (—463) and Cholera (—696).

Compared with the decennial averages, the decreases are enormous under every head with the sole exception of Diphtheria (+ 4), the resultant reduction in the mortality from Zymotic Diseases being 8,242.

TABLE OF MORTALITY FROM ZYMOTIC DISEASES.

	Number of Deaths registered from Zymotic Diseases.			
	1914.	1915.	Average of the last three years (1912—1914).	Average of the last ten years (1905—1914).
Small-pox	252	359	481	691
Measles	263	70	231	392
Plague	2,941	599	2,422	5,689
Scarlet Fever	.....	.....	...	...
Enteric Fever	147	109	151	126
Malarial Fever	213	208	278	242
Ague and Remittent Fever	2,517	1,774	2,737	2,786
Relapsing Fever	... ...	... ..	2	179
Influenza	3	1	1	2
Whooping Cough	10	12	6	147
Diphtheria	2	6	2	2
Cholera	221	16	712	489
Dysentery	901	629	1,092	1,128
Puerperal Septicæmia	291	220	329	372
Total	7,761	4,003	8,444	12,245
Death-rate per 1,000 of population	7·47	4·08	8·62	12·77

TABLE SHOWING BY CASTE THE NUMBER OF DEATHS AND THE DEATH-RATE FROM ALL CAUSES IN 1914 AND 1915 AND THE AVERAGE OF THE PRECEDING 10 YEARS. (1905—1914.)

Race or Caste.	1914.		1915.		Average of last ten years (1905—1914)	
	Number of Deaths.	Rate of Mortality per 1,000 of Population.	Number of Deaths.	Rate of Mortality per 1,000 of Population.	Number of Deaths.	Rate of Mortality per 1,000 of Population.
Hindus. Jains	1,214	59·33	890	43·49	...	...
Hindus. Brahmins	1,147	21·37	972	18·11	...	...
Hindus. Lingaits	139	117·89	111	94·14	...	...
Hindus. Bhatias	234	30·07	196	25·19	...	...
Hindus. Hindus of other Castes	14,784	27·01	10,670	19·49	...	...
Hindus. Hindus, Low Caste	3,908	72·05	2,750	50·70	...	...
Hindus, all Castes	21,426	31·30	15,589	22·77	26,589	39·14
Mussalmans, (including Negro-Africans)	7,311	40·76	5,540	30·89	8,606	50·14
Parsees	1,137	22·32	959	18·82	1,283	25·94
Jews	133	27·73	147	22·28	193	32·94
Native Christians	1,415	34·28	1,143	27·69	1,449	41·86
Eurasians	119	28·41	102	24·35	117	29·57
Europeans	218	18·32	162	13·62	229	17·38
Buddhists	11	19·03	8	13·84	10	24·27
Other and unknown castes	33	242·64	31	227·94	19	246·57
Total	31,853	32·52	23,681	24·17	38,497	40·17

Mortality by Races.

In considering the mortality of the year in relation to the different races that inhabit the City, it will be noticed that compared with 1914 a very marked improvement in the death-rates of all the communities was recorded. The general death-rate for the entire City was 24·17 as compared with 32·52 in 1914.

Hindus as a whole registered the death-rate of 22·77 against 31·30 in 1914 and the decennial mean of 39·14; Mussalmans (including Negro-Africans) recorded the death-rate of 30·89 against 40·76 in 1914.

Lingaits, who number only 1,779 by the Census of 1911, returned the highest communal death-rate (94·14) as in 1914; next Hindus, low caste, 50·70, then Jains 43·49. Native Christians recorded the death-rate of 27·69; Eurasians 24·35, Jews 22·28, Parsees 18·82.

Europeans as usual returned the lowest death-rate (13·62) against 18·32 in 1914; their largest contribution to mortality was under Fevers (15 deaths; ratio 1·26); Respiratory Diseases (14 deaths, ratio 1·17). Of all communities they paid the heaviest toll to Enteric Fever (92; 11 deaths) next to Eurasians (1·19); and the death-rate from accidents was among them (1·68)—nearly the same as among Lingaits (1·69) but higher than in any other caste; but there was no death among them from Plague or Cholera; and they suffered least from Fevers generally (1·26) and from Malarial Fever (·08) and Ague and Remittent Fever in particular (·25); as also from Diarrhœa (·33) and Respiratory Diseases (1·17).

Parsees who returned the next higher rate (18·82: 959 deaths), excepting Buddhists who are so few in number (578), suffered most from Fevers (1·70; 87 deaths), Diarrhœa (1·43: 73 deaths) and Respiratory Diseases (3·18; 162 deaths); but compared with other communities, the following diseases were least fatal to them: Measles (·03; 2 deaths); Plague (·13; 7 deaths); Fevers (1·70: 87 deaths) and excepting Jains (·09; 2 deaths), Small-pox (·15; 8) and Enteric (·54; 28 deaths) next to Europeans and Eurasians.

Hindus stand next with the death-rate of 22·77; they succumbed more than any other race to Plague (·70; 480 deaths); to Small-pox (·35; 246 deaths) except Native Christians (1·30) and to Respiratory Diseases (7·07; 4,841 deaths) except Mussalmans (8·25: 1,480 deaths): whereas Enteric (·05; 38 deaths) was less fatal (38 deaths) to them than to any other community except Mussalmans who recorded the same rate; Malarial Fever was least fatal (·18; 128 deaths).

Jews recorded the next higher rate of mortality (22·28), the most fatal causes among them being Respiratory Diseases (5·15, 34 deaths), Fevers (2·12; 14 deaths), Diarrhœa and Phthisis in equal proportion (·90;6 deaths).

Eurasians recorded the next higher rate of mortality (24·35), Phthisis (2·86; 12 deaths), Enteric (1·19; 5 deaths) and Dysentery (1·19) were more fatal among them than in any other community; while they suffered from Fevers in general (2·62; 11 deaths) to an extent less only than Native Christians (2·78; 115 deaths).

The death-rate among Native Christians was the next higher (27·69), Small-pox (1·30; 54 deaths) and Fevers (2·70; 115 deaths) were more fatal to the community than to any other; their great susceptibility to the former disease being generally due to their not being protected by vaccination during infancy. From Plague (·50; 21, deaths) Malaria (·33; 14 deaths) and Diarrhœa (2·10; 87 deaths) the death-rate among them was higher than in any other community except Hindus (·70), Eurasians (·71) and Mussalmans (2·18) respectively.

The Mussalman death-rate stood at 30·89 against 40·76 in 1914.

Taking Hindus as a whole, who recorded the death-rate of 22·77, Mussalmans recorded the highest communal death-rate as usual.

For an explanation of the high mortality among Mussalmans, we must refer to Table 30 appended at the end, which shows that their contributions to the total mortality are higher than those of any other community under Phthisis (2·44; 438 deaths) excepting Eurasians (2·86), under Respiratory Diseases (8·25; 1,480 deaths) and Diarrhœa (2·12; 391 deaths); the explanation is to be found chiefly in the fact that Mahomedan localities in the City are among the most congested areas and to social customs which in effect deny to Mahomedan females the benefits of open air.

If the death-rates for 1915 be compared with the averages of the preceding 10 years, it will be observed that all the communities registered a very striking reduction ; and showed a total decrease of 16·00 equivalent to a saving to the City of 14,816 lives.

Mortality by Months.

A statement indicating the monthly variations in the mortality of the City is subjoined, from which it will be observed that as compared with 1914 the mortality for the first nine months of 1915 was month for month strikingly lower, showing a decrease of 8,896 deaths during the period. From October, however, the balance inclined against the year under report and the mortality steadily rose till the end of the year, showing an increase during the three months of 724 ; but the decreases in the first nine months were so enormous, that notwithstanding this increase during the last quarter, the net result is a decrease of 8,172 deaths in favour of the year under review.

TABLE OF DEATHS (EXCLUSIVE OF STILL-BIRTHS) FROM ALL CAUSES BY MONTHS IN 1914 AND 1915.

MONTHS.	Number of Deaths in 1914.	Number of Deaths in 1915.
January	2,975	1,811
February	2,886	1,652
March	3,490	2,001
April	3,921	2,109
May	3,358	2,082
June	2,381	1,741
July	2,353	1,782
August	2,702	2,056
September	2,163	2,099
October	1,958	2,108
November	1,773	2,035
December	1,893	2,205
TOTAL...	31,853	23,681

The general death-rate for the whole City is 24·17 against 32·52 in 1914.

Mortality by Sections.

Excepting Fort South which is mostly a business locality and not a residential one (40·72), all the Sections of the City exhibit a further marked improvement in the death-rate as compared with 1914.

The following Sections recorded rates higher than the death-rate of the City :—

Upper Colaba (39·17), Fort South (40·72), Esplanade (24·60), Chukla (27·36), Umarkhadi (32·42), Dhobi Talao (24·71), Bhuleshwar (24·2), Khara Talao (30·46), Kumbharwada (25·05), Khetwadi (24·98),Mazagon (25·43), Tarwadi (37·82), 2nd Nagpada (33·08), Kamathipura (30·82), Tardeo (25·97), Byculla (26·95), and Mahim (26·59). All the Sections of D Ward, excepting Khetwadi (24·98) and Parel show a lower death-rate than that of the City. It is necessary to point out that the high death-rates of certain Sections are only apparently so as in previous years. Fort South (40·72), Upper Colaba (39·17) : these two show the highest Sectional death-rates for the year, the former Section is not a residential locality and the latter reveals a large decrease in population as enumerated in 1911 (from 3,775 in 1906 to 1,557) owing chiefly to the exclusion of the Military included in previous enumerations (1901 and 1906) ; Esplanade (24·60) ; Tarwadi (37·82) and Byculla (26·95) ; these Sections contain Hospitals and should exhibit a much lower rate but for the fact that, for want of residential

addresses of several patients dying in the Institutions, the deaths have to be referred to the Sections containing the Hospitals instead of to those from whence they come. Esplanade contains the St. Gorge's, Cama and Allbless, Goculdas Tejpal and Parsee Lying-in-Hospitals ; also the Lady Hardinge and Marine Lines War Hospitals ; Sir Jamsetji Jeejeebhoy, Bai Motlabai, D. M. Petit and Maratha Hospitals are in Tarwadi Section ; St. Joseph's Foundling Home, Arthur Road Hospital and Adams Wylie Memorial Hospital are in Byculla Section.

As regards the high death-rate in Tarwadi Section, which is only specious, a special report has been submitted to the Corporation as desired by that body under their Resolution No. 5162 of 15th November 1915.

The following Sections exhibit a very notable improvement in their death-rates as compared with the averages of the preceding quinquennium (1910-1914) :—

Sections.	Death-rate. (1915).	Mean Death-rate. (1910-1914.)
Forth North	24·09	38·42
Esplanade	24·60	39·05
Mandvi	23·43	38·10
Chukla	27·36	40·62
Umarkhadi	32·42	47·01
Dongri	18·24	40·52
Bhuleshwar	24·52	36·47
Khara Talao	30·46	44·04
Kumbharwada	25·05	37·15
Mazagon	25·43	40·08
Tarwadi	37·82	55·79
Second Nagpada	33·08	47·32
Kamathipura	30·82	45·99
Tardeo	25·97	37·85
Byculla	26·95	41·80
1st Nagpada	23·69	33·45
Parel	20·23	32·42
Sewri	18·98	33·60

Table 3 appended at the end of this Report denotes the relative incidence of diseases in the different Sections of the City.

From the Statement it will be seen that the Sections which showed higher death-rates from Plague than the whole City were Middle and Lower Colaba (4·11), Mandvi (1·68), Mahalakshmi (1·36), Mahim (1·27), Umarkhadi (·94), Chukla (·78), Bhuleshwar (·76), Fort North (·74), Market (·72), Worli (·64) and Dongri (·62) ; and those from Measles were First Nagpada (·31), Dhobi Talao (·23), Fanaswadi (·18), Worli (·17), Girgaum (·16), Byculla (·14), Sion (·9) and Chukla (·8).

The incidence of Small-pox was more marked in Dhobi Talao (1·13), Girgaum (1·00), Chowpati (·87), Kamathipura (·26), Mahalakshmi (·72), Fanaswadi (·50), Fort South (·57), Byculla (·54), Khetwadi (·43), Sion (·42), Sewri (·41), and Fort North (·39) ; and that of Malaria in Fort South (1·15), Esplanade (·78), Upper Colaba (·64), Tarwadi (·63), Middle and Lower Colaba (·40), and Fort North and Mandvi (·39).

Diarrhœal Diseases registered the highest death-rate in Fort South (5·48), Tarwadi (5·03), Mahim (4·09), Esplanade (3·94), Mazagon (3·95), Upper Colaba (3·85), and Byculla (3·07).

Tubercle of Lungs and Tubercular Diseases levied the highest toll in Fort South (9·82) Kamathipura (4·65), Upper Colaba (3·21), and Esplanade (3·09).

Diseases of the Respiratory System caused more deaths in Umarkhadi (9·82), Girgaum (9·79), Second Nagpada (9·72) and Kumbharwada (8·84).

DIAGRAM

SHOWING

DEATH-RATE (PER 1000 OF POPULATION) IN BOMBAY CITY AND ITS SECTIONS 1900-1915.

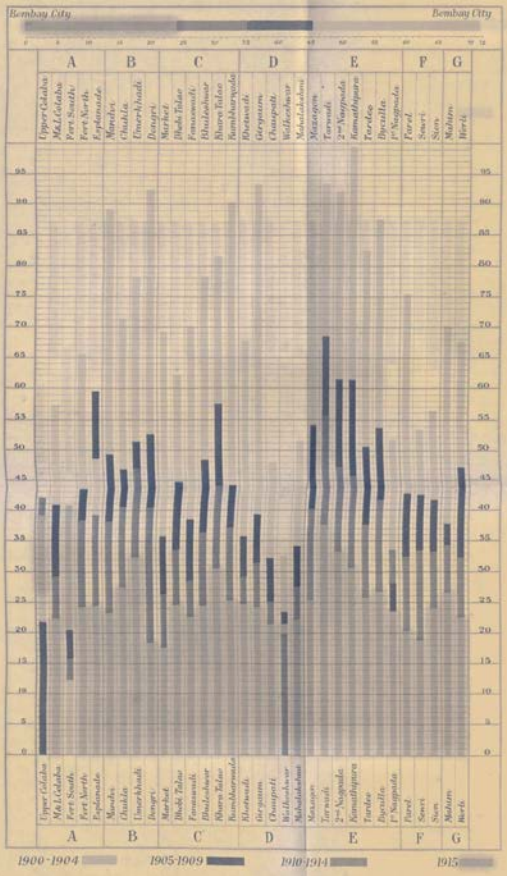


TABLE SHOWING THE DEATH-RATE FROM ALL CAUSES IN 1914 AND 1915 AND THE MEAN OF THE PRECEDING FIVE YEARS (1910-1914.)

Ward.	Sections.	1914.	1915.	Mean death-rate (1910-1914).
A	Upper Colaba	44·31	39·17	41·97
	Middle and Lower Colaba	26·67	22·35	29·19
	Fort, Southern	15·86	40·72	15·73
	Fort, Northern	35·15	24·09	38·42
	Esplanade	35·02	24·60	39·05
B	Mandvi	31·47	23·43	38·10
	Chukla	35·03	27·36	40·62
	Umarkhadi	44·41	32·42	47·01
	Dongri	30·31	18·24	40·52
C	Market	21·41	17·69	36·41
	Dhobi Talao	31·87	24·71	33·75
	Panaswadi	26·78	22·73	28·62
	Bhuleshwar	33·16	24·52	36·47
	Khara Talao	39·99	30·46	44·04
	Kumbharwada	35·51	25·05	37·15
D	Khetwadi	28·14	24·98	29·22
	Girgaum	27·58	24·07	31·66
	Chowpati	25·88	21·40	25·07
	Walkeshwar	24·81	21·52	19·91
	Mahalakshmi	25·96	22·27	27·83
E	Mazagon	39·60	25·43	40·08
	Tarwadi	51·43	37·82	55·39
	Second Nagpada	40·80	33·08	47·32
	Kamathipura	41·44	30·82	45·99
	Tardeo	36·24	25·97	37·85
	Byculla	38·10	26·95	41·80
	First Nagpada	31·18	23·69	33·45
F	Parel	29·07	20·23	32·42
	Sewri	34·17	18·98	33·60
	Sion	33·89	24·05	33·18
G	Mahim	36·23	26·59	34·50
	Worli	29·81	22·69	32·24
	Harbour, Docks, Railways and Homeless	3·75	2·49	3·01
	Total	32·52	24·17	35·23

Mortality by Place of Birth.

Of the total number of 23,681 deaths in the entire population during the year, 46·38 per cent. or 10,985 deaths occurred among persons born in Bombay, 48·64 per cent. or 11,519 among those born outside it; and 4·97 or 1,177 deaths were of persons whose place of birth could not be ascertained.

Plague.

The most notable feature of the health conditions of the City during the year under review was the reduction of Plague to the smallest proportions on record; the lowest mortality of 1912 (1,717) was further reduced by 1,118 deaths, so that the figure for 1915 (599) now remains the lowest mortality from the disease, yielding the death-rate of (·61) per 1,000 persons living against 3·00 in 1914.

The number of Plague attacks during the year was 694 against 3,348 in 1914 and 3,023 in 1913, and the case mortality works out to 86·31, almost the same as in 1913 (86·30) when the number of deaths from Plague was 2,609.

It will be noticed from the Table which follows that with the steady and progressive decline in the number of deaths from Plague, there has not followed a concurrent decrease in the fatality of the disease, as is evidenced by the case mortality which, with annual fluctuations, stood for 1915 at 86·31; this was lower than in any previous year since 1902 (84·15) excepting 1913 when it was about the same.

TABLE SHOWING THE NUMBER OF ATTACKS AND DEATHS FROM PLAGUE SINCE 1896 AND THE TOTAL MORTALITY, EXCLUDING STILL-BORN, SINCE 1891.

Years.	Number of Plague Attacks.	Number of Plague Deaths.	Death-rate from Plague per 1,000 of Population.	Percentage of Deaths to Attacks.	Number of Deaths from all causes (exclusive of Still-born).	Total Death-rate per 1,000 of Population.
1891	...	...	...	...	23,847	29·01
1892	...	...	...	...	26,518	32·26
1893	...	...	...	...	23,142	28·16
1894	...	...	...	...	27,330	33·25
1895	...	...	...	...	25,081	30·52
1896	...	...	...	...	33,451	40·71
1897	...	...	...	...	47,896	58·28
1898	...	...	...	...	51,961	63·23
1899	...	...	...	...	56,434	68·07
1900	...	...	...	...	79,350	96·55
1901	...	...	...	...	59,495	76·66
1902	...	...	...	...	48,414	62·38
1903	...	...	...	...	50,513	65·09
1904	...	...	...	...	42,676	54·99
1905	...	...	...	...	47,762	61·54
1906	...	...	...	...	52,874	54·07
1907	...	...	...	...	38,687	39·56
1908	...	...	...	...	38,271	39·13
1909	...	...	...	...	34,878	35·66
1910	...	...	...	...	34,933	35·72
1911	...	...	...	...	34,961	35·69
1912	...	...	...	...	38,954	39·77
1913	...	...	...	...	31,806	32·47
1914	...	...	...	...	31,853	32·52
1915	...	...	...	...	23,681	24·17
1896	2,544	1,936	2·36	76·10		
1897	13,314	11,003	13·39	82·64		
1898	22,130	18,185	22·12	82·17		
1899	19,451	15,796	19·22	81·20		
1900	17,913	13,285	16·16	74·16		
1901	21,006	18,736	24·14	89·19		
1902	16,423	13,820	17·80	84·15		
1903	23,344	20,788	26·78	89·05		
1904	15,488	13,538	17·44	87·40		
1905	16,308	14,198	18·29	87·06		
1906	12,323	10,823	11·06	87·82		
1907	7,353	6,389	6·53	86·88		
1908	6,134	5,361	5·48	87·39		
1909	5,864	5,197	5·31	88·62		
1910	4,130	3,656	3·73	88·52		
1911	4,503	4,006	4·09	88·96		
1912	1,936	1,717	1·75	88·68		
1913	3,023	2,609	2·66	86·30		
1914	3,348	2,941	3·00	87·84		
1915	694	599	·61	86·31		

Plague by Month.

The monthly variations of Plague mortality are indicated in the following table, from which it will be observed that as compared with 1914, the mortality was remarkably lower month for month during the first nine months of the year under report, showing a reduction during the period of 2,396; during the last three months however, there was an increase (+54) recorded; 76 deaths against 22 in 1914. The number of deaths rose steadily from 7 in January until the maximum (of 159 deaths) was reached, as usual, in April (against 1,135 deaths in 1914); it then declined uninterruptedly during the succeeding months till 23 was reached in October; this was followed by a trivial rise in the last two months—of 1 in November and 6 in December.

Apart from the fact that the disease became epidemic much later in the year than usual, the epidemic itself was of the shortest duration known, namely four weeks from the week ending 17th April, till that ending 15th May; the duration was seventeen to twenty four weeks in 1909-1911, and thirteen to fourteen weeks in the next three years, and much longer as we go further back. During the eight years from the week ending 11th August 1897 to week ending 3rd October 1905 the sporadic stage was never reached.

The maximum number of seizures on a single day was 14 on the 20th of April against 77 on the 2nd May 1914; and the highest number of deaths from the disease was 12 on 20th April against 65 on 2nd May in 1914.

TABLE SHOWING THE DAILY NUMBER OF ATTACKS AND DEATHS FROM PLAGUE AND THE TOTAL MORTALITY EXCLUDING STILL-BORN IN 1915.

Date.	January.			February.			March.			April.			May.			June.			July.			August.			September.			October.			November.			December.		
	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.	Attacks.	Deaths.	Total Mortality.
1	..	..	61	..	1	63	1	2	52	3	2	63	6	4	86	2	2	69	..	..	50	..	..	58	2	3	73	..	..	70	..	..	56	..	..	68
2	..	..	56	..	1	62	2	2	57	5	4	50	3	4	65	2	2	67	1	1	51	3	3	84	1	1	60	..	..	59	..	..	60	1	2	67
3	..	..	62	2	..	54	1	..	67	3	2	60	8	7	56	1	1	63	..	..	62	1	..	82	1	1	77	..	..	71	2	1	74	..	..	69
4	..	..	55	..	1	47	1	2	59	4	4	63	6	6	83	2	2	69	2	1	74	2	1	52	1	..	75	2	1	87	..	..	56	1	..	64
5	..	..	58	2	1	41	6	4	56	5	6	59	11	8	71	2	2	66	2	3	75	..	..	63	..	1	85	..	1	61	3	2	58	1	..	70
6	..	..	56	2	1	70	4	5	77	4	1	58	4	1	63	2	1	61	5	3	67	3	3	76	2	2	90	1	1	61	2	1	69	..	2	66
7	..	..	65	..	..	63	..	1	70	4	3	67	6	4	82	2	3	64	5	2	52	..	1	79	3	2	69	..	..	63	..	2	67	..	..	78
8	..	..	58	..	..	71	2	2	63	5	4	70	5	7	62	2	1	67	4	3	70	1	1	64	1	..	69	..	..	73	..	1	53	1	1	63
9	..	..	58	1	1	58	2	2	61	5	1	65	5	6	72	2	2	69	3	4	54	1	1	42	..	..	67	2	1	81	2	2	62	4	2	63
10	..	..	56	..	..	57	2	2	60	3	3	75	5	4	70	..	..	65	3	4	59	1	..	63	2	..	58	..	..	72	2	2	75	..	..	76
11	2	1	64	2	1	62	2	1	76	6	7	81	8	11	75	..	..	46	2	2	56	2	1	67	..	..	75	3	3	64	1	1	68	1	2	72
12	..	..	69	1	1	53	3	4	70	2	2	63	7	6	71	1	1	43	2	2	50	3	3	61	1	1	62	2	1	64	1	1	67	..	..	78
13	..	..	51	..	..	68	3	2	50	6	3	74	9	7	86	3	1	71	3	1	48	..	..	70	1	2	64	..	..	74	..	..	81	2	1	60
14	..	..	66	..	1	54	1	1	69	7	7	68	3	3	62	..	..	61	1	1	52	1	1	65	2	1	58	1	2	77	1	..	61	1	1	60
15	..	..	56	..	..	47	3	4	68	7	4	72	5	3	63	1	..	65	1	2	61	..	..	69	..	..	86	..	..	48	..	..	67	..	..	48
16	..	1	60	..	..	59	1	2	74	8	5	80	3	3	52	2	3	72		2	57	..	1	74	..	..	66	2	2	71	..	..	84	..	..	61
17	1	1	49	1	..	46	7	5	69	9	7	79	3	4	73	1	1	60	..	1	59	4	1	73	3	1	75	..	1	80	1	..	61	2	2	83
18	1	1	51	2	2	64	..	1	57	9	7	67	4	2	62	3	..	51	..	..	52	1	1	60	1	1	83	2	1	67	..	1	73	1	1	76
19	1	..	48	..	..	46	3	2	50	11	11	82	6	3	50	1	..	54	1	..	55	1	1	65	..	1	84	..	..	70	2	1	67	..	..	76
20	..	..	67	2	..	56	4	2	64	14	12	97	4	3	61	..	1	54	1	..	49	1	1	61	3	1	62	..	..	66	..	1	67	..	..	64
21	..	..	56	..	1	70	2	..	56	7	7	87	1	1	71	..	1	68	2	2	66	..	..	68	1	..	64	2	2	61	1	..	68	4	4	77
22	..	..	59	1	1	71	1	4	77	12	10	66	3	4	66	3	1	60	1	1	60	..	..	61	..	..	54	1	1	67	..	..	61	1	1	77
23	..	1	57	2	2	63	3	3	72	9	9	91	4	3	60	1	1	48	..	..	53	1	1	52	2	3	74	1	1	67	..	..	77	..	..	65
24	1	1	46	..	1	65	3	..	61	12	7	78	3	4	61	..	..	55	..	1	59	..	..	58	2	2	73	1	1	74	3	3	66	1	1	67
25	..	..	55	..	..	57	3	3	66	6	6	57	6	5	61	..	..	50	1	2	57	1	1	66	1	1	70	2	..	71	1	1	73	2	2	66
26	1	1	58	..	..	64	3	2	60	9	7	67	4	4	60	2	3	57	1	2	58	1	1	72	2	1	68	1	2	74	2	..	71	1	..	77
27	..	..	74	1	..	55	5	5	70	1	2	66	7	5	75	..	..	41	1	..	73	5	4	66	..	1	77	..	..	54	1	1	77	2	2	80
28	..	..	54	3	1	62	4	5	69	6	3	69	1	2	64	1	1	55	3	..	48	1	1	82	1	1	53	..	..	68	2	..	57	..	..	78
29	1	..	42	..	..	..	1	3	70	6	6	79	..	..	74	2	2	54	..	..	62	..	1	75	1	1	57	1	1	68	..	2	83	1	2	82
30	..	..	56	..	..	..	2	1	62	3	2	66	4	4	67	..	..	46	1	1	56	3	1	72	..	..	71	1	1	62	3	1	56	2	2	90
31	..	..	79	..	..	..	5	5	66	..	..	..	4	3	49	..	..	..	..	..	59	..	1	63	..	..	..	..	..	63	..	..	..	2	1	86
Total ..	8	7	1,811	22	17	1,652	83	77	2,001	193	159	2,109	148	131	2,082	38	32	1,741	48	41	1,782	37	31	2,056	34	28	2,099	25	23	2,103	30	24	2,035	31	29	2,205

Total in 1915.		
Attacks.	Deaths.	Total Mortality.
694	599	28,681

STATEMENT SHOWING PLAGUE DEATHS BY MONTHS FOR THE YEAR 1915.

MONTHS.	Plague Deaths in	
	1914.	1915.
January	59	7
February	119	17
March	465	77
April	1,135	159
May	821	131
June	147	32
July	83	41
August	55	31
September	35	28
October	10	23
November	7	24
December	5	29
Total	2,941	599

Plague by Races.

Hindus of all classes together contributed 480 deaths to the total Plague mortality (599); Mussalmans including Negro-Africans 88 and Native Christians 21 against 2,439, 333, 102 respectively in 1914 : the remaining 10 deaths occurred among all the other communities together, excepting Europeans and Buddhists who recorded no death from the disease during the year; 7 among Parsis, 1 among Jews and 2 among Eurasians.

Plague by Sex and Age.

Plague caused 441 deaths among males and 158 among females. In every community except Lingaits, Bhatias, and Jews, the male deaths exceeded the female. Among Lingaits they were the same in number as among females; whereas among Bhatias and Jews no death among females was recorded from the disease.

Eurasians recorded no death among males but two deaths among females.

The proportion of deaths per 1,000 of sex population was ·6 among males, and ·4 among females and the proportion of male deaths to female was 2·7 to 1 in the entire population as among Hindus of all castes together; as 3·8 to 1 among Mussalmans (including Negro-Africans); + 2·5 to 1 among Parsees, but it was 2 to 1 among Native Christsians.

Examining Plague Mortality under the different age-groups, it will be found that the disease was most fatal to persons between 10 to 25 years of age, as 318 or 53 per cent. of the deaths occurred among them : 241 of these being among males and 77 among females; while in the population aged 25 to 50 and more, 179 males and 52 females died from the disease. As in the preceding year, there was only one death among infants or children under one year of age; and in the age group of 1 to 10 years there were 21 deaths among males and 28 deaths among females.

Plague by Sections.

The general death-rate from Plague for the whole City was ·61 against 3·00 in 1914. All the Sections of the City reveal a lower death-rate from the disease than in 1914. The lowest rate was returned by 2nd Nagpada (·13) and the highest by Middle and Lower Colaba (4·11). A comparison with the death-rate for 1915 with the quinquennial mean will reveal a large improvement in the incidence of Plague in every Section, that in the case of the entire population being equivalent to 2·43.

TABLE SHOWING THE DEATH-RATES FROM PLAGUE IN SEVERAL SECTIONS IN 1914 AND 1915 WITH THEIR QUINQUENNIAL AVERAGES (1910-1914).

Ward.	Section.	1914.	1915.	Quinquennial average (1910-1914).
A	Upper Colaba	2·56	...	2·49
	Middle and Lower Colaba	4·87	4·11	5·15
	Fort, Southern	2·88	·57	2·52
	Fort, Northern	3·50	·74	3·41
	Esplanade	1·74	·45	1·46
B	Mandvi	3·94	1·68	3·50
	Chukla	2·47	·78	2·65
	Umarkhadi	2·88	·94	3·53
	Dongri	2·09	·62	3·70
C	Market	2·28	·72	2·85
	Dhobi Talao	3·56	·38	3·47
	Fanaswadi	2·37	·54	3·34
	Bhuleshwar	2·63	·76	2·98
	Khara Talao	2·78	·43	3·19
	Kumbharwada	3·14	·54	3·44
D	Khetwadi	1·31	·34	1·64
	Girgaum	·87	·25	1·88
	Chowpati	1·57	·26	1·79
	Walkeshwar	2·53	·18	1·17
	Mahalakshmi	4·06	1·38	2·96
E	Mazagon	5·12	·43	4·39
	Tarwadi	3·76	·28	3·60
	Second Nagpada	2·02	·13	1·65
	Kamathipura	2·58	·43	2·12
	Tardeo	2·26	·57	1·86
	Byculla	3·64	·21	3·29
	First Nagpada	2·02	·15	1·55
F	Parel	3·51	·15	3·62
	Sewri	6·87	·31	4·06
	Sion	4·43	·16	3·06
G	Mahim	4·39	1·27	4·21
	Worli	3·09	·64	4·17
	Harbour, Docks, Railways and Homeless	·04	·02	·07
	Total	3·00	·61	3·04

Plague Measures.

The usual preventive and precautionary measures against Plague were continued during the year under report. Inoculation, Rat Destruction, Evacuation and Disinfection.

(*i*) *Inoculation*:—3,910 inoculations were performed in 1915 as compared with 4,622 in 1914. Of the total number, 361 inoculations were performed by the District Registrars.

(*ii*) *Rat Destruction*:—Rat raids gave more satisfactory results in the year under notice than in 1914; as 793,705 rats were collected and destroyed during 1915 compared with 644, 241 in 1914 and 654,516 in 1913, being an increase of 149,464 over 1914 and 139,189 over 1913. From the following Rat Statement, it will be observed that of the 793,705 rats collected and sent to Parel Laboratory, 316,378 were examined and 4,973 were found infected. The percentage of infected rats to the number examined being 1·57 as compared with 5·9 in 1914 and 5·3 in 1913.

STATEMENT SHOWING THE NUMBER OF PERSONS INOCULATED DURING THE YEAR 1915.

District No.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
District No. 1 ...	...	...	...	...	...	...	...	...	...	...	1	...	1
" " 2 ...	...	...	...	...	1	...	...	...	...	...	...	...	1
" " 3 ...	...	...	...	...	35	...	...	...	1	...	41	...	77
" " 4 ...	1	...	...	...	...	...	...	...	...	...	...	...	1
" " 5 ...	...	...	...	...	...	...	...	...	...	...	...	...	...
" " 6 ...	...	...	...	...	...	...	...	...	...	...	...	...	...
" " 7 ...	...	...	...	...	...	...	...	...	41	...	...	...	41
" " 8 ...	...	...	...	...	...	...	...	...	...	...	...	...	...
" " 9 ...	...	...	240	...	...	...	...	...	...	...	...	...	240
" " 10 ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bombay Bacteriological Laboratory.	12	49	111	18	24	13	6	12	5	40	9	8	307
H. M.'s Common Prison	221	199	284	262	281	265	296	305	317	284	270	258	3,242
Total ...	234	248	635	280	341	278	302	317	364	324	321	266	3,910

STATEMENT SHOWING THE TOTAL NUMBER OF RATS SENT TO THE PAREL LABORATORY, THE NUMBER EXAMINED AND THE NUMBER FOUND INFECTED IN 1915.

Months.	Total number of rats sent to the Parel Laboratory.	Number of rats examined.	Number of rats found infected.	Ratio.
January	65,631	23,219	76	0·32
February	62,564	23,496	192	0·81
March	64,050	24,952	453	1·81
April	63,726	26,104	1,145	4·38
May	56,424	24,864	1,162	4·67
June	49,019	19,572	427	2·18
July	56,619	24,326	325	1·33
August	64,017	23,372	184	0·82
September	64,809	24,083	159	0·66
October	79,018	31,361	174	0·55
November	78,487	31,121	236	0·75
December	89,341	39,908	440	1·1
Total ...	793,705	316,378	4,973	1·57

The percentage of infected rats rose from 0·32 in January to 4·67 in May and then steadily declined to 1·1 in December.

Rat Plague and Human Plague.

In the Diagram that follows, the relation between Rat Plague and Human Plague has been illustrated; the rise in human Plague will be seen to have followed on the rise of infection among rats; the fall in the percentage of infected rats will be found to have been followed by a corresponding fall in the incidence of Plague.

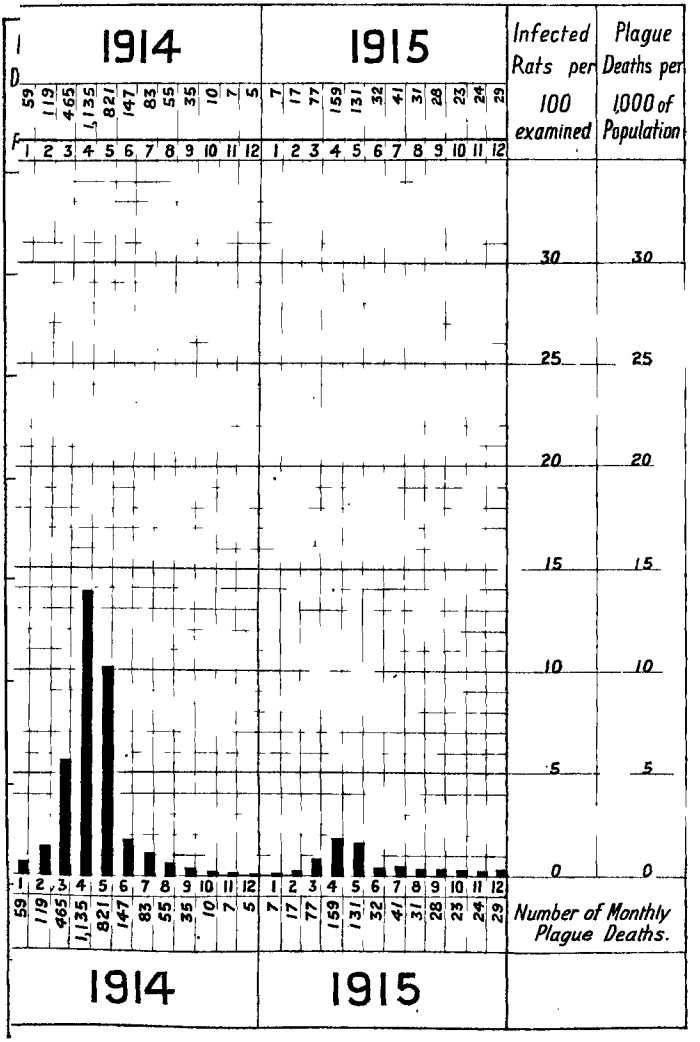
(III) Evacuation.

To induce evacuation of congested and infected areas, Municipal Health Camps were put up, as in previous years, at Agripada, Babula Tank, Gilder Tank and Mahim Gardens and near Mahim Railway Station, Colaba, (1st Koli Lane), Chinchpoogli, Arthur Road.

To provide against possible emergencies, semi-permanent Health Camps at Koli Lane (Colaba), North Brook Gardens, Arthur Road, Chinchpoogli (at the junction of DeLisle Road and Arthur Road) and Mahim Station were maintained in a state of repair during monsoon months.

Besides these, there were private Health Camps put up by the public in the open fields at Vincent Road and Matunga.

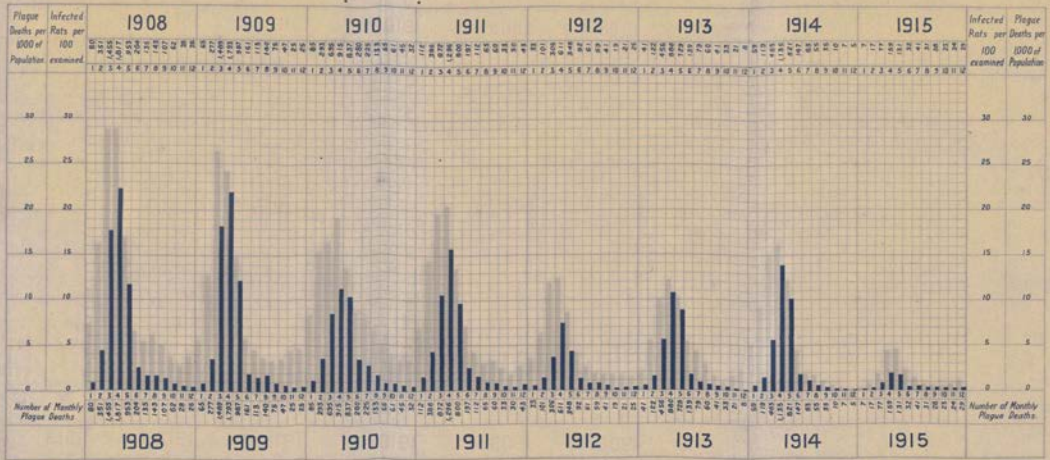
N PLAGUE
NTHS.



Plague Deaths in the City.

DIAGRAM

RELATION OF RAT PLAGUE TO HUMAN PLAGUE DURING 1908 TO 1915 BY MONTHS.



As in previous years, every place where an infected rat was found or a Plague case occurred was pesterined and all the gullies and passages between houses were similarly treated.

On account of	Cases removed to Hospitals.	Houses vacated.	Houses disinfected.	Articles sterilized.
Precautionary Measures	.....	92	1,345	76
Dead Rats	.....	17	147	12
Plague	88	129	663	691
Suspicious Plague	2	1	5	9
Small-pox	398	56	692	825
Measles	23	...	82	75
Chicken-pox	46	...	60	19
Typhoid Fever	68	...	188	486
Malarial ,, ...	1	...	53	4
Remittent ,, ...	2	...	4	...
Relapsing ,, ...	.....	...	.....	...
Cholera	15	4	18	107
Erysipelas	4	...	13	6
Leprosy	.....	...	2	...
Diarrhœa	22	...	29	45
Tubercle of Lungs	119	...	1,237	415
Other Tubercular Diseases	6	...	100	40
Pneumonia	17	...	13	4
Other Causes	161	1	37	4
Total ...	972	300	4,688	2,818

Small-pox.

Small-pox is a disease of seasonal prevalence and is generally never wholly absent in the closing and opening months of any year. In 1915 Small-pox did not attain epidemic proportions, though it was continually re-inforced by cases imported from outside except during the months of July to October, and the mortality from the disease was 775 against 252 in 1914.

The year under report opened with two imported cases on the New Year's day, 1 among the Pilgrims from Mecca and the other an arrival from Ratnagiri—both of whom recovered : and the month registered 45 cases including 4 imported (2 from Mecca, 1 from Ratnagiri and 1 from Busrah).

The following Table shows the number of Small-pox attacks and deaths during each month of the year.

Months.	Small-pox attacks in 1915.			Small-pox deaths in 1915.		
	Males.	Females.	Total.	Males.	Females.	Total.
January	31	14	45	10	7	17
February	49	31	80	9	7	16
March	84	38	122	36	15	51
April	90	57	147	39	21	60
May	73	51	124	41	29	70
June	46	25	71	21	16	37
July	21	18	39	11	9	20
August	16	13	29	7	11	18
September	7	15	22	5	11	16
October	8	6	14	4	3	7
November	11	8	19	6	4	10
December	41	22	63	25	12	37
Total ...	477	298	775	214	145	359

February registered 80 cases (including 2 imported : 1 from Pendoor and the other from the Harbour and Shipping) and 16 deaths—against 56 attacks and 26 deaths in 1914.

March recorded 122 attacks (including 18 imported cases—8 from the Harbour, 4 from Dacca among Bengal Pilgrims, 2 each from Mecca and Porebunder, 1 from Thana District and 1 from Igatpuri) and 51 deaths ; against 104 attacks and 49 deaths in 1914.

April registered 147 attacks (including 2 imported cases from the Harbour) and 60 deaths.

May recorded 124 attacks (including 2 imported cases : 1 from Surat and 1 from Malwan) and 70 deaths ; against 63 attacks and 36 deaths in May 1914.

June registered 71 attacks (including 3 cases imported from the Harbour, Dabhol and Santa Cruz) and 37 deaths, against 28 attacks and 17 deaths in 1914.

From July a steady decline set in and the month registered 39 attacks and 20 deaths against 16 attacks and 11 deaths in the preceding year. No cases were imported during the month, as also during August, September and October ; these latter months registered 29, 22 and 14 attacks and 18, 16 and 7 deaths respectively, there being in 1914, 16 attacks and 9 deaths in August, 8 attacks and 9 deaths in September and one attack but no death in October.

Imported cases were reported again in November and December which registered 19 and 63 attacks respectively and 10 and 37 deaths, against 27 attacks and 10 deaths in November and 51 attacks and 14 deaths in December. One case was imported from Goa in November and 5 cases in December from Baroda, Ratnagiri, Sindh, Alibag and Malegaum.

Thus out of 775 cases during the year, 37 were imported during eight months of the year, the largest number, namely 18, being in March ; of the 359 deaths from the disease, 10 were among persons newly arrived in the City.

Further, it is interesting to note that in spite of the greater prevalence of the disease during the year, the case mortality was lower than in 1914, 46·3 per cent against 49·6.

Vaccination of Pilgrims to the Haj.

A special vaccination staff was engaged, as usual, by this Department for the vaccination of Mahomedan pilgrims, who embarked at Bombay for the Haj during the Haj Season—from August to October. The total number who embarked in 1915 was 2,433 against 11,700 in 1914 ; and of these, 2,311 were vaccinated in Bombay, prior to their embarkation—17 males and 8 females primarily and 1,979 males and 307 females re-vaccinated. The operations were carried out under the supervision of the Superintendent of Vaccination No Lady Vaccinator was appointed during the Haj Season as the work of vaccinating female pilgrims was done by the Nurse attached to No. 9 District in addition to her own duties. The percentage of pilgrims vaccinated at Bombay, prior to embarkation, was 94·99 against 77·79 in 1913 and the highest since the introduction of the measure :—

Years.	No. of Pilgrims to the Haj embarked.	Number of Pilgrims Vaccinated.	Percentage of Vaccination.
1910	18,023	8,278	45·8
1911	22,856	15,140	66·2
1912	15,464	10,587	68·4
1913	15,319	11,198	73·1
1914	11,700	9,102	77·79
1915	**2,433**	**2,311**	**94·99**

Small-pox by Sections.

The highest number of deaths from Small-pox during the year under review was registered in Dhobi Talao (44), giving the death-rate of 1·13 per 1,000 of population in that Section. Next, in the order of incidence, follow Byculla (41) ·54 ; Worli (30) ·33 ; Kamathipura (28) ·76 ; Mahalakshmi (19) ·72 ; Fanaswadi (16) ·58 ; Khetwadi (14) ·43 ; Sion (13) ·42 ; 2nd Nagpada (11) ·50 ; Upper Colaba and Dongri registered no death from the disease.

Of the total number of deaths from Small-pox, 214 were of males and 145 of females.

Small-pox by Age and Sex.

64 deaths occurred among infants under 1 year, being 17·8 per cent. of the total Small-pox mortality against 60 deaths or 23·7 per cent. in 1914. Of these, 31 were males and 33 females. In the age-groups of 1 to 5 years and 5 to 15 years, 62 (28 males and 34 females) and 43 (18 males and 25 females) deaths were registered, being respectively 17·2 and 11·9 per cent. of the total. 42·8 per cent. or 154 deaths occurred among population between 15 to 30 years—115 males and 39 females.

Vaccinal condition of infants who died of Small-pox.

Of the 64 infants who died of Small-pox during the year, 58 were not vaccinated at all, 3 were re-vaccinated during the incubation period, 2 were said to have been vaccinated out of Bombay and in 1 case the vaccinal condition could not be ascertained.

Vaccinal condition of children admitted into the Arthur Road Hospital for Small-pox.

The following table gives the information required by Government in the General Department, under their Resolution No. 3231 of the 21st May 1912, as to the vaccinal condition of children (under ten years) who were admitted for and died of Small-pox during the year in the Arthur Road Hospital. In all 72 children were admitted into the Hospital during 1915 ; of these 41 were vaccinated and 31 unvaccinated. Of the vaccinated, 38 recovered and 3 died ; of the unvaccinated 22 recovered and 9 died :—

Age.	Vaccinated.				Unvaccinated.			
	Admitted.	Recovered.	Died.	Case-rate.	Admitted.	Recovered.	Died.	Case-rate.
1 to 6 months	1	1	...	...	6	3	3	50·00
7 to 12 months	2	2	...	...	5	3	2	40·00
1 to 5 years	14	12	2	14·28	12	10	2	16·25
6 to 10 years	24	23	1	4·16	8	6	2	25·00
Total ...	41	38	3	7·31	31	22	9	29·03

Vaccination.

There are 16 Vaccination Stations including the Central Vaccination Depôt at Suparibag Road, Parel. Of these stations, three are worked on every Monday morning and two every morning during the rest of the week ; while that at Kalbadevi Road is open every Sunday during the morning hours only, whereas on week days it is open during the afternoon hours only.

Vaccination is performed on every afternoon excepting Sundays and Holidays at Suparibag Road—the Office of the Superintendent of Vaccination.

Thus vaccination is a routine duty of the Department and the District Registrars and Nurses and the vaccination staff visit houses and chawls to find out unprotected persons and induce them to be vaccinated and revaccinated.

Yearly Return of Vaccination (excluding Bandra and Kurla) from the Superintendent of Vaccination, Bombay, for the Year 1915.

| Month. | PRIMARY VACCINE OPERATIONS. | | |

The total number of vaccine operations performed during the year was 29,837 against 32,450 in 1914 and 31,466 the average during 1905-1914. Vaccine Operations.

During the year under review Cholera recorded only 16 deaths against 221 in 1914 and the lowest on record since 1848 ; the nearest approach to this low figure being in 1903 (17), when the death-rate was ·02 against ·01 in the year under review. Cholera.

One death was registered in Mandvi, Dhobi Talao, Mahalakshmi, Kamathipura, Tardeo, Parel, Sewri and Mahim ; and 2 in Khetwadi, Girgaum and Worli : and 2 in the Harbour. Cholera by Sections.

The steady decline in the mortality from Tuberculosis continued during the year : the mortality declined from 8,657 (10·53) in 1900 to 3,183 (4·10) in 1905 ; 1,889 (1·92) in 1914 and 1,710 (1·74) in 1915. Tuberculosis.

In the subjoined table, Tuberculosis mortality and death-rate per 1,000 of the population in the Section during 1914 and 1915 and their averages during the preceding quinquennium are given :— Tuberculosis by Sections.

It will be observed that the death-rate from the disease for the entire City in 1915 (1·74) was lower than in the preceding year (1·92) and than also the mean of the last five years (2·52) ; that in the case of all Sections it is lower than the mean except Mandvi, which exhibits the same (2·16), and the following which indicate rates higher than the mean :—

Section.	Death-rate.	
	1915.	1910-1914.
Fort, Southern	9·82	·56
Chowpati	2·28	2·13
Walkeshwar	1·87	1·44
Mahalakshmi	1·82	1·50

The increase in the case of Fort Southern appears enormous, but the Section is mostly a business locality and not residential and exhibits high mortality-rates.

The Sections which recorded a higher rate than the City's (1·74) are the following :—

A Ward :—Upper Colaba (3·21), Fort Southern (9·82), Fort Northern (2·36), Esplanade (3·09).

B Ward :—Mandvi (2·16), Chukla (2·64), Umarkhadi (2·45).

C Ward :—Khara Talao (2·82), Kumbharwada (2·52).

D Ward :—Khetwadi (2·63), Girgaum (2·30), Chowpati (2·28), Walkeshwar (1·87), Mahalakshmi (1·82)

E Ward :—Tarwadi (2·42), Second Nagpada (2·71), Kamathipura (4·67), Tardeo (2·26).

The three Sections that registered the highest ratios were Fort Southern (9·82), Kamathipura (4·65) and Upper Colaba (3·21) ; and the three that recorded the lowest rates were Sewri (·31), Mazagon (·36) and 1st Nagpada (·61).

MORTALITY AND DEATH-RATE PER 1,000 OF SECTION POPULATION FROM TUBERCULOSIS.

Ward.	Sections.	1914.		1915.		Average of 1910-1914.	
		No.	Rate.	No.	Rate.	No.	Rate.
A	Upper Colaba	6	3·85	5	3·21	9	4·49
	Middle and Lower Colaba.	15	·76	25	1·27	29	1·54
	Fort, Southern	2	·57	34	9·82	2	·56
	Fort, Northern	54	2·12	60	2·36	87	3·33
	Esplanade	56	3·15	55	3·09	53	3·22
B	Mandvi	74	2 22	72	2·16	74	2·16
	Chukla	102	4·20	64	2·64	95	3·76
	Umarkhadi	162	3·54	112	2·45	282	5·96
	Dongri	43	1·57	20	·73	84	2·96
C	Market	33	1·09	36	1·19	58	1·85
	Dhobi Talao	58	1·49	58	1·49	68	1·77
	Fanaswadi	30	1·09	35	1·27	38	1·36
	Bhuleshwar	43	1·1	48	1·31	73	1·98
	Khara Talao	74	3·22	65	2·82	84	3·53
	Kumbharwada	86	3·10	70	2·52	85	2·95
D	Khetwadi	102	3·19	84	2·63	106	3·28
	Girgaum	75	2·43	71	2·30	97	3·19
	Chowpati	24	2·10	26	2·28	25	2·13
	Walkeshwar...	19	1·78	20	1·87	16	1·44
	Mahalakshmi	43	1·63	48	1·82	39	1·50
E	Mazagon	21	·69	11	·36	43	1·42
	Tarwadi	85	2·99	69	2·42	109	3·89
	Second Nagpada	67	3·08	59	2·71	92	4·22
	Kamathipura	197	5·36	171	4·65	185	5·04
	Tardeo	97	3·49	63	2·26	91	3·26
	Byculla	79	1·04	86	1·14	113	1·49
	First Nagpada	20	3·11	4	·62	20	3·44
F	Parel...	43	·94	37	·81	79	1·72
	Sewri	10	·52	6	·31	26	1·40
	Sion	26	·84	29	·94	58	1·89
G	Mahim	44	1·44	34	1·11	66	2·15
	Worli	90	1·00	124	1·38	183	2·13
	Harbour, Docks, Railways and Homeless.	9	·20	9	·20	5	·11
	Total...	1,889	1·92	1,710	1·74	2,474	2·52

Tuberculosis by Race or Caste.

The following table shows the death-rate from Tuberculosis in the different communities in 1915 calculated per 1,000 of population in the Caste ; corresponding rates for the preceding year and the mean rate for the quinquennium (1910-1914) are given for comparison.

It will be observed that the ratio for the entire City (1·74) is lower than in 1914 (1·92) and much more so than the five year mean (2·52).

Europeans (·92), Parsees (1·04), Jews (1·06), Hindus as a whole (1·46), and Buddhists (1·73) registered a lower ratio than the City ; while Native Christians (2·08), Eurasians (2·86) and Mussalmans (2·98) recorded a higher ratio.

In Hindu Communities, Hindus, low caste, registered the highest ratio (2·72), except Lingaits (9·32 ; 11 deaths) who are comparatively a small community. Next come Jains (2·29), Bhatias (1·41), Hindus of " other castes " (1·30) and Brahmins (1·34).

RATE OF MORTALITY FROM TUBERCULOSIS BY CASTES.

RACE OR CASTE.	1914.	1915.	1910—1914.
Hindus — Jain	2·10	2·29	.....
Hindus — Brahmins	1·15	1·34	.....
Hindus — Lingaits	6·78	9·32	.....
Hindus — Bhatias	1·54	1·41	.....
Hindus — Hindus of other Castes	1·44	1 30	.....
Hindus — Hindus, Low Caste	3·15	2·72	.....
All Castes	1·58	1·46	2·09
Mussalmans (including Negro Africans)	3·34	2·98	4·55
Parsees	·90	1·04	1·34
Jews	6·97	1·06	2·20
Native Christians	3·10	2·08	3·19
Eurasians	1·43	2·86	2·17
Europeans	1·00	·92	·64
Buddhists	1·73	1·73	1·92
Other and unknown Castes	.....	.....	.....
TOTAL	1·92	1·74	2 52

The number of deaths registered under the general heading of "Fevers" which includes Scarlet, Enteric, Malaria, Ague and Remittent and Relapsing Fevers, was 2,091, being 786 less than in 1914, 1,062 less than the average of the preceding quinquennium and 1,245 less than the antecedent decennial average (1905-1914): the rate of mortality from Fevers per 1,000 of population (2·13) in the year under report was the lowest since 1848, since when statistical information is available.

Scarlet and Relapsing Fevers occasioned no death, as in 1914, there being 4 deaths from the latter in 1915.

To Enteric Fever 109 deaths were due, being 38 less than in the preceding year and 42 less than the previous quinquennial average.

Malaria caused 208 deaths, being 5 and 84 less than in 1914 and the average of 1910-1914, respectively.

From Ague and Remittent Fever, 1,774 deaths were registered, being 743 less than in the previous year and 926 less than the average of the antecedent quinquennium.

The following statement gives the monthly mortality in 1915 from all types of Fevers in general, and from each type separately. The maximum monthly mortality from Fevers was reached in August (being 219 against 337 in March 1914) and the lowest in February, namely, 131, against 157 in November in the previous year. As compared with 1914, the mortality from Fevers was lower month by month throughout the year, except in September and November when it was higher by 4 and 6 respectively. The highest number of deaths from Malaria in the year under report was 51 in November against 28 in January of the antecedent year and that from Enteric 17 in May against 19 in June 1914 :—

FEVER MORTALITY BY MONTHS IN 1915 AND 1914.

MONTHS.	1915.				1914.
	Enteric.	Malarial.	Ague and Remittent.	All Fevers.	All Fevers.
January	6	19	129	154	316
February	10	8	113	131	295
March	6	7	139	152	337
April	6	13	176	195	308
May	17	9	179	205	259
June	9	10	133	152	194
July	9	16	143	168	199
August	14	4	201	219	236
September	9	12	193	214	210
October	11	28	139	178	200
November	6	51	106	163	157
December	6	31	123	160	166
Total	109	208	1,774	2,091	2,877

Measles. Measles registered 70 deaths, being 193 and 236 less than in the previous year and the average of the preceding quinquennium, respectively.

Influenza. To Influenza 1 death was due against 3 in 1914 and the average of 1910-1914.

Whooping Cough. Whooping Cough caused 12 deaths, being 2 more than in the preceding year and 1 more than the average of the previous five years.

Diarrhœa. From Diarrhœa 1,566 deaths were registered, being 635 less than in 1914 and 789 less than the average of the preceding five years.

Dysentery. To Dysentery 629 deaths were due, being 272 less than in the previous year and 465 less than the average of 1910-1914.

Puerperal Septicæmia. Puerperal Septicæmia caused 220 deaths, being respectively 71 and 124 less than in 1914 and the average of the preceding five years.

Leprosy. From Leprosy 59 deaths were registered against 68 in the preceding year and 83 the average of the previous five years.

Cancer. Cancer registered 72 deaths, being 4 more than in the preceding year and 8 more than the average of the previous five years.

Premature Birth. The number of deaths among children born prematurely was 212, being 25 and 30 more than in 1914 and the average of 1910-1914, respectively.

Debility. To Debility 2,047 deaths were due, being 214 less than in the previous year and 444 less than the average of the preceding five years.

Old Age. To Old Age, 1,241 deaths were ascribed, being 531 less than in 1914 and 625 less than the average of the preceding five years.

Jigger. On the 19th of August, on the arrival of H. S. Begaum, 5 cases of Jigger were discovered by the Health Officer of the Port as having occurred amongst the followers of the Steamship. The cases were removed to J. J. Hospital for treatment and thence to the Municipal Infectious Diseases Hospital ; all cases recovered.

Diseases of the Nervous System. From the Diseases of the Nervous System 1,536 deaths were registered, being 399 less than in the previous year and 493 less than the average of 1910-1914.

Diseases of the Circulatory System. To the Diseases of the Circulatory System 339 deaths were due, being 41 more than in the previous year but 3 less than the average of the preceding five years.

Tubercle of Lungs (Phthisis). Tubercle of Lungs registered 1,411 deaths, being 109 less than in 1914 and 663 less than the average of 1910-1914.

Diseases of the Respiratory System. From the Diseases of the Respiratory System 6,770 deaths were registered, being 1,964 less than in the previous year and 2,005 less than the average of the preceding five years.

Diseases of the Digestive System. To the Diseases of the Digestive System 1,053 deaths were due, being 130 less than in 1914 and 179 less than the average of the previous five years.

Diseases of the Lymphatic System. Diseases of the Lymphatic System caused 14 deaths against 6 in the preceding year and 12 the average of 1910-1914.

Diseases of the Urinary System. The number of deaths from the Diseases of the Urinary System was 283, being 39 less than in the previous year and 40 less than the average of the preceding five years.

Diseases of the Generative System. From the Diseases of the Generative System 127 deaths were registered, being 20 less than in 1914 and 22 less than the average of the preceding five years.

Diseases of the Organs of Locomotion and Connective Tissue. To the Diseases of the Organs of Locomotion and Connective Tissue 89 deaths were due, being 18 more than in the previous year but 9 less than the average of 1910-1914.

Accidents.

The number of deaths from Accidents and Violence during the year was 606, being 2 less than in 1914 and 34 less than the average of the preceding five years. Of these, 44 deaths were due to poisoning, being 18 and 11 less than in the previous year and the quinquennial average respectively; of these, 35 were suicidal, 2 accidental, 5 from snake-bite and in 2 cases the circumstances under which the poison was administered were not known. 77 deaths were due to Drowning as in 1914, against 91 the average of the preceding five years: of these 13 were suicidal, 40 accidental and in 24 cases the circumstances under which the deaths took place were not known.

Municipal Dispensaries.

The thirteen Municipal Dispensaries, including "Parbhadevi Road Dispensary" and "Bai Gowrabai Dispensary" at Kamathipura, both opened in 1912, and the "Rajana Jalooji Dispensary" opened at Kamathipura on the 21st July 1914 were open throughout the year to administer, as in the past, free medical relief to the sick poor of the City. The last named "Rajana Jalooji Dispensary" was converted into a Tuberculosis Dispensary on 1st December 1915.

The actual number of new cases (individuals) treated at these Dispensaries during the year was 1,01,707 (67,343 males and 34,364 females) against 91,536 in 1914, making 435,889 the total number of attendances against 424,197 in the preceding year. Of these, 2,040 patients were seen at their houses.

The diseases treated at these Dispensaries were Small-pox, Measles, Plague, Fevers, Diarrhœal Diseases, Diseases of the Digestive, Circulatory, Respiratory, Urinary, Generative and Nervous Systems and other general and local diseases.

The actual number of new cases individually treated at the Colaba and Victoria Bunder Charitable Dispensaries (to which a contribution is paid by the Municipality and which are under the control of the Registrar, No. 1 District, who visits them daily) was 8,306 (5,865 males and 2,441 females) making 29,764 the total number of attendances; out of these, 54 patients were seen at their houses.

Municipal Nurses.

During the year, the Nurses and Midwives working under the District Registrars paid 28,276 visits to houses, chawls and huts and enquired into 3,872 cases of ordinary sickness, 685 cases of Infectious Diseases and 1,821 deaths among the female population of the City. They also attended 1,425 confinements against 1,214 in 1914 and ascertained 10,062 births.

Notifications of Infectious Diseases.

836 Notifications of Infectious Diseases were received during the year under report against 1,746 in 1914. Of these, 345 were of Plague, 143 of Phthisis and other Tubercular Diseases and 348 of other Infectious Diseases.

From Hakims and Vaidyas no Notifications were received.

The percentage of notifications received which had risen from 15·07 in 1913 to 16·00 in 1914, again fell to 12·15 in 1915. The percentage of certificates of Cause of Death to the total mortality was 15·42 against 15·14 in 1914 and 15·26 in 1913.

Year.	No. of Notifications received from			Percentage of total Notifications to number of cases reported by District Registrars.	Number of Certificates of Cause of Death received from			Percentage of total Certificates received to Total Mortality.
	Medical Practitioners.	Hakims & Vaidyas.	Total.		Medical Practitioners.	Hakims & Vaidyas.	Total.	
1910	1,487	68	1,555	11·29	2,894	134	3,028	8·66
1911	1,551	53	1,604	11·63	3,994	287	4,281	12·24
1912	1,687	31	1,718	11·32	4,891	289	5,180	13·29
1913	1,765	34	1,799	15·07	4,620	236	4,856	15·26
1914	1,746	30	1,776	16·00	4,620	203	4,823	15·14
1915	**836**	.....	**836**	**12·15**	**3,501**	**152**	**3,653**	**15·42**

Certification of the Cause of Death.

The number of Certificates of the Cause of Death received during the year was 7,122 against 8,935 in 1914; of these, 3,501 were from qualified Medical Practitioners, against 4,620 in the previous year, 152 from Hakims and Vaidyas 2,668 from various Hospital Authorities and the causes of 513 and 288 deaths were certified by the Commissioner of Police

and the Coroner of Bombay, respectively. The cause of 425 deaths was certified by the Registrars after seeing the persons during their last illness and the cause of 15,886 and 393 deaths was verified by the Registrars, in the former case on the information gathered from the relatives of the deceased and in the latter after seeing the dead bodies. In 5 cases the cause of death could not be ascertained as the residence of the deceased could not be traced.

Copies of Certificates issued.

626 copies of Certificates of Registry of Death and 221 of those of Birth and 23 true copies of Birth and Death Reports were issued during the year and the total fees received on account of them and for searches of Birth and Death Registers for indefinite periods as well as for producing such Registers in Courts of Law amounted to Rs. 1,277-12-0 against Rs. 1,513-3-0 during the preceding year.

Notices under the Act.

The number of notices served by the Health Department during the year under the various Sections of the Municipal Act was 4,572 against 3,202 in the preceding year. Of these, 2,136 were complied with, 1,834 were not complied with, 350 cancelled and 252 were pending at the close of the year.

In 2,756 cases, summonses were issued by the Presidency Magistrates at the instance of this Department against 2,295 in the antecedent year. Convictions were obtained in 739 cases and in 996 the parties were warned and discharged; 5 cases were dismissed; 978 withdrawn, the offences having ceased. 38 cases were pending at the close of the year. Of the Notices, 27 were issued against overcrowding, 1 in C Ward and 26 in E Ward. The notice issued in C Ward was subsequently cancelled: and of those issued in E Ward, 23 were complied with and 3 not complied with. In 3 cases summonses were issued by the Presidency Magistrate and the parties were warned and discharged.

Conservancy Work.

The number of carts of cutchra, drain stuff and other matter emptied at the Tardeo Flats and other places in the City during the year was 661,485 against 602,634 carts in 1914. Of these 540,770 were Departmental and 120,715 private.

During the year 87,837 night-soil and cesspool carts and 4,135,438 night-soil baskets were emptied at the several Night-soil depôts in the City, as compared with 99,968 night-soil and cesspool carts and 4,182,021 night-soil baskets in the preceding year. Of these, 416 night-soil carts were private and the rest Departmental. The figure shows a decrease in the year under report of 12,131 night-soil carts and 46,583 night-soil baskets compared with 1914. This decrease is due to the substitution of basket privies by water closets in E Ward and to some more of the mills and buildings in F Ward having been connected to the sewer.

ADMINISTRATION OF PUBLIC HEALTH.

Administration of Public Health.

For administration purposes, the City has been divided into seven Wards, each under the subordinate charge of a Deputy Health Officer who is responsible for both the Conservancy and Sanitary work of his Ward. The Deputy Health Officers are assisted by a staff of Sanitary and Conservancy Inspectors. The Deputy Health Officers are under the direct control of the Executive Health Officer who is assisted by two Assistants.

Division of the City :—
(1) Wards.

For the purposes of the Registration of Births and Deaths and free medical relief, the City has been divided into ten Districts with ten Municipal Charitable Dispensaries each in charge of a Registrar, assisted by two Sub-Registrars who are all qualified medical men: one trained Visiting Nurse and Midwife is attached to each District Office. Two Dispensaries, one at Purbhadevi and the other known as "Bai Gowrabai Dispensary" at Kamathipura, were added in 1912: the third "Rajanna Jalooji Dispensary" at Kamathipura opened in 1914 was made available for Anti-Tuberculosis treatment from 1st December 1915.

(2) Registration Districts.

Each of the District Officers is equipped with staff for registering births and deaths, enquiring into the cause of death, checking Cemetery Returns and for disinfecting houses and rooms where cases of Intectious Diseases may have occurred or dead rats may have been reported. The work of the Registrars is supervised by the Deputy Health Officers and the Executive Health Officer with his two Assistants.

There is also a Special Assistant Health Officer in charge of Arthur Road Hospital for ectious Diseases and the Maratha Hospital for Plague.

Speci There is also a Special Assistant to the Health Officer for Malaria in charge of the l Malaria Department.

For analytical and bacteriological examination, there is a Municipal Analyst in charge of a fully equipped Chemical and Bacteriological Laboratory, where chemical analysis and bacteriological examination of Municipal waters is conducted by him. Municipal Laboratory.

The Veterinary Staff includes four Inspectors with a Shalotri, who are all qualified Veterinary Surgeons and inspect the Milch Cattle Stables in the City and the Municipal Bullocks and are in charge of the Municipal Bullock Hospital. Veterinary Establishment.

The Vaccination Staff includes, besides the Superintendent and the Assistant Superintendent, ten Vaccinators, one Head Clerk and four subordinate Clerks. Vaccination Establishment.

The Conservancy and Sanitary Staff exclusive of the labour Staff consisted in 1915 of:—

3 Chief Inspectors.

8 Sanitary Inspectors.

9 Conservancy Inspectors.

2 Loading Siding Sub-Inspectors.

7 House Drain Inspectors.

7 Assistant Sanitary Inspectors.

67 Sub-Inspectors.

1 Halalcore Inspector.

27 Sub-Inspectors.

5 Sub-Inspectors for the control of sale of adulterated milk.

The control of Milk trade—the licensing of milk shops and sellers—was transferred to this Department from the License Department on 24th September 1915; the Staff for this purpose consists of five Sub-Inspectors and as many peons. Transfer of Control of Milk Trade.

Accordingly, the Health Department issue licenses to milk shops and hawkers, collect license fees and pay them into the Municipal Treasury, carry on inspection of shops and the testing of milk and undertake prosecutions for breach of license conditions.

A Lethal Chamber for the painless destruction of stray and ownerless dogs by Carbonic Acid Gas was constructed during the year and brought into use on 24th November : to the end of the year under report 1,170 stray dogs were destroyed. Lethal Chamber.

(Extract of a report by the Executive Health Officer.)

The Control and Treatment of Tuberculosis in Bombay.

In dealing with this question it will be of interest to review the history of the subject as dealt with by the Health Department in Bombay.

At the General Meeting of the British Congress on Tuberculosis for the prevention of consumption, held in July 1901, certain Resolutions were passed, and the Corporation appointed a Committee (Resolution No. 9011 of 17th October 1901) " to consider the subject in consultation with the Commissioner and the Health Officer and to frame such measures as may be desirable and possible for the purpose of checking Tubercular disease amongst all classes of the population of the City of Bombay."

The Executive Health Officer was asked to submit, for being placed before the Committee, a memo. of suggestions, arranged in order of importance, showing the practical measures that might be taken for the prevention of the disease (*vide* Commissioner's No. 24786 of 12th December 1901).

Accordingly, I forwarded the following list under No. 16642 of 12th February 1902 :—

1. Voluntary notification by medical men to the Health Officer of every case of Tuberculosis coming to their knowledge.

2. Facilities to be given for a bacteriological examination of sputum sent by medical men to the Health Officer to ascertain whether tubercular bacilli are present.

3. Instructions to be given how to disinfect a room in which a case of Tuberculosis has occurred and died.

4. Instructions to be given how to disinfect sputum and to prevent the bacilli spreading the disease.

5. Disinfection and lime-washing of every infected house, at Municipal expense where necessary in the opinion of the Health Officer, and systematic lime-washing of every common lodging-house twice a year at owner's expense.

6. Printed instructions in English and the Vernaculars to the people, and instructions by male and female visitors as to the precautions necessary to prevent the spread of disease and notices posted as to spitting.

7. Prevention of over-crowding in houses, factories and workshops.

8. Ventilation of houses, printing offices and workshops, and removal of dust from wool and cotton cleaning godowns and all trade processes causing pollution of air liable to affect the lungs and predispose to infection.

9. Provision of sanatoria for isolating and treating cases of Tuberculosis.

10. Inspection of milk and meat supplies and analysis of milk.

The suggestions, along with the Committee's Report, were approved and adopted, and a copy forwarded to the Commissioner and the Health Officer for guidance. (Corporation Resolution No. 922 of 5th May 1902.)

In October 1902, the Government of Bombay issued a Resolution (No. 5578, General Department, of 9th October 1902) publishing the remarks of the Government of India on the Resolutions passed on the subject of Tuberculosis by the British Congress and requested the Municipal Commissioner, Bombay, to take such action as may be deemed necessary with reference to the suggestion in paragraph 3 of the letter from the Government of India :—

"In the 5th Resolution the Congress have also suggested that medical officers of health should use all their powers to prevent the spread of Tuberculosis by means of milk and meat. This suggestion is of importance mainly in Municipal areas, where some Officer of the Municipal body usually has power to inspect materials of food and drink."

As the re-organisation of the Health Department was under consideration, I suggested, long before the issue of the Resolution, the establishment of a properly equipped Municipal Laboratory and the appointment of a Municipal Analyst for the examination of milk, ghee and other articles of food.

The Laboratory was established and the City Analyst was appointed in April 1903.

I suggested also the appointment of Food Inspectors and the necessary amendments of the Municipal Act (Annual Report for 1903).

In 1903 I submitted a report on the milk supply of Bombay, and made several suggestions for providing a certified milk supply.

Fresh proposals on the subject were submitted in 1904 at the request of the Corporation (Annual Reports for 1904 and 1905).

In my Annual Report for 1908, I referred to the measures suggested by me in 1902 for the prevention of Tuberculosis and pointed out how the adoption of those precautionary measures appeared to have borne some fruit in the large number of notifications received every year and the steady decline in the annual mortality from the disease. In 1902, the mortality from the disease stood at 3,957 (5·09 per 1,000 of population) : it fell to 3,567 in 1906 (3·61), 2,877 in 1907 (2·94) and 2,387 in 1908 (2·44).

In 1910 investigations were carried on by this Department into the subject of infected or tuberculous milk and sputum and the results were embodied in my report published in 1911 on " How Tuberculosis is spread in India. "

Leaflets on the precautions to be taken are distributed, and lectures given. The Municipal District Nurses and the Health Visitors of the Bombay Sanitary Association make frequent visits to houses and advise the parents and relatives.

The question has been before the Corporation on several occasions (see report of the Committee, 1902) and certain recommendations were made.

The disease has been notifiable in Bombay since 1903, though the number of cases notified by medical men is small compared with the number of cases occurring.

In my report on " How Tuberculosis is spread in India, " 1911, I dealt with a large series of experiments on sputum and the question of the part played by milk in the spread of Tuberculosis in India, and made the following suggestions as to the control of the disease :—

Public precautions—Municipal and State:—To thoroughly undertake the work of controlling and exterminating Tuberculosis in a community, much time, trouble, and energy are required with a perfect organisation and thorough control and suitable bye-laws and regulations. A perfect routine system will have to be followed beginning with compulsory notification of every case by the medical man in charge or by direct inquiry by a special qualified Medical staff, male and female, also by Health Visitors and Nurses.

Circular notices and printed precautions will have to be freely distributed, and thorough disinfection of rooms, clothing, &c., in which a case has occurred carried out.

On receipt of a Notification of information of a case or a certificate of death from Phthisis, or as the result of examination of sputum sent to the Laboratory, the Sanitary Officer visits the house, making inquiries into the duration of the case and its surroundings. Instructions are given printed and oral, and the case, if possible, removed to the Hospital for Consumption.

He then proceeds to disinfect the room and bedding. Esmarch process of rubbing the walls with dough to collect the infected dust may be adopted in suitable houses, but would not be practicable in all Indian dwellings.

Two per cent. solution of Chloride of Lime or Izal 1-30 may be used for washing the floor, wall, and ceilings.

The furniture should be washed with a damp cloth soaked in Izal and the linen soaked in Carbolic Acid.

The walls, ceiling and floors should be rubbed over with dough to collect the dust, and the dough afterwards burnt; on no account should the room be swept with a brush or duster as the infected material may dispersed in the air and may be inhaled by the operatives.

The floors, walls and ceilings should be treated with Formalin Spray or with Chloride of Lime 1½ oz. to gallon of water or Izal 1-50.

The linen and bedding should be passed through a steam sterilizer.

A room occupied by a phthisical patient should be thus treated every 6 months.

Regular form should be kept, and a register made of all cases visited and the action taken.

Municipal.—Improvements in dwellings, Town Planning and ventilation of houses and areas.

Hospital accommodation, Sanatoria and Consumption Dispensaries should be provided.

In all countries these Institutions are provided by the Municipalities, State or Charitable persons and privately.

Inspection of meat and milk, dairies, cowsheds, slaughter-houses and of the over-crowding of workshops and factories should be systematically carried out.

Under the heading of inspection of food and milk, these matters are dealt with.

All milch cattle should be tested with Tuberculin, and legislation adopted for compensation and slaughter of infected animals.

(1) Compulsory notification of births within 24 hours.

(2) Complete control of the milk supply by the State, ensuring the removal of dairies from the centres of large towns and cities; cleanliness in the collection of milk and the transmission of it from the dairy to the consumer; the application of the tuberculin test to dairy cattle and the removal of such as react to the test.

(3) Medical inspection of school children and school premises, factories, workshops and infected houses by medical men and Health Visitors to ensure sufficient hygienic measures and sanitary arrangements.

(4) Housing reform, thus raising the social and domestic conditions of the poor.

(5) Segregation in Hospital of advanced cases and public and private sanatoria.

(6) Compulsory notification of the disease.

The investigation carried on by this Department was the first investigation into the subject in India, and I advised further inquiry.

I came to the conclusion that, so far as these experiments had shown, Tuberculosis in cattle is rare in Bombay.

I pointed out that the subject was worth considering further, but with the pressure of work this was impossible in the Health Department of the Municipality; and I suggested that it be taken up by the Parel Laboratory to whom I would give all assistance possible.

The results of my investigation were:—

(1) The cattle in Bombay and presumably other parts of India do suffer from Tuberculosis to a slight extent.

(2) That it is possible to infect milk by human agency owing to the habits and customs of the attendants and the method of distributing milk.

(3) That a possible source of infection is the fæces of infected cattle due to the intimate connection there is between the labouring class and the cattle and the enormous use made of cow-dung in houses and surroundings.

Later on, Major Gloster, I.M.S., carried out at the Parel Laboratory the examination of 100 samples of single cow's milks in Bombay for Tubercle bacilli by animal tests and in no case were the guinea-pigs found to have developed Tuberculosis.

For many years, the City of Bombay was passing through a series of epidemics of Plague, Small-pox, Cholera and Malaria, and the energies and resources of the Health Department were taxed to the utmost, as during these years the various re-organisations and re-arrangements of the Health Department to a certain extent handicapped its efforts towards measures for the control of Tubercular and other diseases and it was impossible to deal on a large scale with the particular subject which has only recently been so fully developed in England.

The wave of anti-Tubercular measures which spread all over the world during the past few years, reached India; and in (February) 1912, Mr. Ratan Tata offered to contribute very handsomely to a scheme for the control of Tuberculosis, which offer was published in the Press (March). Mr. Ratan Tata's proposal was laid before His Excellency the Governor Lord Sydenham, who informed me that the question was engaging the attention of Government and he called a meeting of the Medical profession to consider how best a Scheme could be worked.

The result of that meeting was the King George V Anti-Tuberculosis League, and an Executive Committee was formed and the Executive Health Officer and Dr. N. H. Choksey, Special Assistant to Health Officer for Infectious Diseases, were appointed Honorary Secretaries.

The Scheme formulated was adopted and has now been working for nearly three years. A Tuberculosis Dispensary with a Medical Officer and Nurse was established and has been working satisfactorily. The Government of Bombay, the Municipality and private individuals contributed.

So far the work of the League has been solely in the City of Bombay; the only work done outside by the League was the offering of advice to Municipalities in the Presidency and sending copies of literature on the subject.

Although the Scheme was meant for the improvement of the Health of the people in the City and to create an interest in the Presidency, many members of the Corporation strongly objected to the Health Officer taking part as an Honorary worker in a scheme fraught with such importance to the health of the City and in a work so intimately connected with sanitary administration and the relief of sickness in Bombay.

The Anti-Tuberculosis League is attempting by voluntary effort, with the assistance of the Health Officer and his Assistant as Honorary Secretaries, to organise, supervise and control without remuneration, the work which is done in other Cities of the civilised world by specially highly paid officials employed by Municipalities, County Councils and other Local Authorities.

The first step taken was to start a dispensary and employ a special staff and organise a series of lectures and visits to the infected houses. It was soon found that to enable it to be of greater benefit to the citizens, beds should be provided whither cases coming to the knowledge of the Tuberculosis office could be removed so as to treat them and prevent their becoming a danger to their relatives and others.

At the suggestion of the Honorary Secretaries, who being the chief officers of the Health Department are intimately in touch with the existence of the disease and well acquainted with the requirements of the people, a proposal was made to the Corporation to allow, as an experiment, the empty Wards at the Maratha Hospital to be used for the purpose, the Corporation bearing the cost out of the grant for Infectious Diseases, as the Wards were no longer required for Plague—that disease having been reduced to almost a negligible quantity for the greater part of the year.

The suggestion was a modest one, as an experiment, to ascertain how far such accommodation would be acceptable to Indian patients; the cost was small, and it was money saved by the reduction of other infectious diseases.

In England, the Public Health (Tuberculosis) Regulations, 1908, provide for the notification, within 48 hours, of Tuberculosis of the Lungs, occurring in any person, either an inmate of a Poor Law Institution or in receipt of out-door Poor Law relief. They also provide that the Medical Officer of Health is to be informed, when the patient is discharged from hospital, of his actual or intended place of destination; and also any change of address by the Relieving Officer.

The Public Health (Tuberculosis in Hospitals) Regulations, which came into force on the 1st May 1911, extend notification to cases under treatment in Hospitals generally including Dispensaries.

The Public Health (Tuberculosis) Regulations 1911, came into operation on the 1st January 1912, and provide for the compulsory notification, by the medical practitioner, of all cases of Pulmonary Tuberculosis, provided that the medical practitioner need not notify any case of Pulmonary Tuberculosis that has been previously notified under the Poor Law Regulations or under the Hospital Regulations.

On receipt of the notification, the home of the patient is visited, and full enquiries made into the history of the case, the condition of the home, habits of the people, and the general sanitary arrangements of the premises are also reported upon. An instruction card, containing "information for Consumptive people and those who live with them," is freely circulated, and, if necessary, full explanation is given, Disinfection of the house and bedding follows, and if the patient remains at home, the premises are also periodically disinfected.

An officer of the sanitary Staff subsequently revisits the home, and, if necessary, advises the patient as to the need for absolute cleanliness, free ventilation of the rooms, and care in dealing with the expectoration, and notes that the general instructions embodied in the instruction card are being followed.

Scheme for Bombay.

In Bombay City, we have now arrived at a period when the more acutely infectious diseases such as Plague, Small-pox, Cholera, Malaria do not require so much of our attention and when the health of the City is gradually approaching Western conditions and the mortality

from all diseases has been considerably reduced, and we can turn our attention to dealing with diseases, which although not so acutely infectious and fatal as Plague, Small-pox, Cholera, are the cause of much sickness and suffering.

Two such diseases, common to all countries, are Tuberculosis and Venereal disease.

I propose to deal with Tuberculosis first.

Tubercle of the Lungs is an infective disease, though not in the same way as Scarlet Fever, Small-pox or Measles, etc., is conveyed from person to person when in close contact, as in overcrowded houses, sleeping in the same room with suffering cases.

We must also accept the fact that Pulmonary Tuberculosis is prevalent in India, especially in towns ; but a vast improvement could be made with properly organised measures.

This being so, it becomes the duty of Government and the Municipalities to control and treat the disease.

This is recognised throughout the entire civilised world, and an enormous amount of labour and money is being spent by local authorities in this direction.

In English towns and counties of England and America and Australia, schemes have been organised to control this disease and the results can be seen from the figures below :—

Pulmonary Tuberculosis.—Death-rate per 1,000 living.

Cities.	1881-85.	1901-05.	1912.
London	2·22	1·60	1·35
Edinburgh	2·12	1·61	1·08
Glasgow	3·11	1·76	1·31
Dublin	3·46	3·09	2·45
Belfast	3·82	3·07	2·05
Melbourne	2·33	1·39	1·04
Toronto	2·03	1·74	.....
Paris	4·41	3·90	3·32
Amsterdam	2·38	1·44	1·22
Copenhagen	2·73	1·44	1·37
Petrograd	5·49	3·12	2·87
Moscow	4·11	2·68	2·44
Berlin	3·39	2·26	1·68
Leipzig	3·70	1·93	1·59
Vienna	6·85	3·36	2·37
Milan	3·35	2·32	1·69
Venice	3·06	2·09	2·16
New York	3·98	2·15	1·76
Chicago	1·80	1·52	1·44
Buenos Aires	2·70	1·84	1·66
Bombay	3·64	4·85	2·22
Calcutta	.....	6·52	2·1
Madras	.....	.....	1·13

The different conditions existing in India make it necessary to adopt measures which will appeal to the people, first by instructing them in the measures necessary for the control of Tuberculosis, and give them confidence in the methods to be followed.

It is not necessary to unduly magnify the existence of the disease; it is well recognised by the most illiterate that such a scourge exists. From researches carried out by the Health Officer in Bombay, verified by the Parel Laboratory, Tuberculosis in cattle is rare in India, so that we have fewer dangers to face.

We want therefore not to rush into extremes, but to offer practical help and guidance and encourage those, to whom modern methods are strange, to realise and appreciate the facilities given.

It cannot be denied that the conditions of life of many people in India, especially in towns, predispose to the spread of the disease by contact and hereditary tendency.

The main principles of prevention and treatment are the same in whatever country they are practised.

1. Educational—Where the people can be approached by the Health Visitors and others with a view to explaining the nature of the disease, the value of treatment and the facilities given for preventing it.

2. The Dispensary—Where patients come for advice and treatment in the early stages.

3. Institutional treatment—Hospitals and Sanatoria where patients come for residence for treatment.

4. Administration—In which the sanitary authority co-ordinates with voluntary efforts to receive information of cases, advise treatment, disinfect houses and improve sanitary surroundings.

It is now necessary to adopt a scheme for the control of Tuberculosis in Bombay.

In doing so, we have to bear in mind the difference in the conditions surrounding the question, compared with English towns.

A large percentage of the people are not yet alive to the advantages of modern methods, but the work done by the Health Department, the Bombay Sanitary Association and King George V Anti-Tuberculosis League has immensely increased the desire on the part of the people for improved sanitation, and the demand for hospital and dispensary treatment is rapidly growing.

In proposing a scheme for Bombay, we have many advantages. The Dispensaries and Registration Offices with the Nurses and Health Visitors started in 1901 have up to now been working as Offices of inquiry, report, disinfection and education, and the medical officers are systematically inquiring into the existence of Tubercular cases and taking action. With the exception of the Dispensary at Falkland Road, none of the premises occupied as such are the property of the Municipality, and we are constantly changing them with the result of much inconvenience and although we have put forward proposals for acquiring sites and erecting suitable buildings, the question does not progress.

All Municipal Dispensaries should be the property of the Municipality and be built on a uniform plan.

It is estimated that for the control of Tuberculosis, 1 dispensary should be provided for every 200,000 population.

I consider that with the present system of utilizing the existing Dispensaries and the services of the District Registrars for extra work on Tuberculosis, the provision of one properly equipped Tuberculosis Dispensary, in addition to that of King George V Anti-Tuberculosis League, would be sufficient at present.

The Staff required would be :—

		Pay Rupees p. m.
1	Specially trained Tuberculosis Officer	250—300
2	Nurses	200
1	Clerk	50
1	Peon	15
1	Hamal	15
1	Compounder	30
	Drugs	50
	Contingencies	10
	Total Rs. ...	670 p. m.

The Tuberculosis Officer will work under the Executive Health Officer, supervising the Tuberculosis work of the dispensaries, treat cases, and distribute patients to the Tuberculosis Hospital Wards.

Institutional Treatment: Hospitals and Sanatoria.

Provision should be made for 200 beds :—

50 beds to be provided at Maratha Hospital.
50 „ „ on land adjoining Arthur Road Hospital when made suitable.
50 „ to be at King Edward VII Memorial Hospital.
50 „ „ at the General Hospitals.

The provision of Tuberculosis Dispensary and 200 beds could be spread over three years thus :—

1st year, 1 dispensary and 50 beds at Maratha Hospital.
2nd „ 50 beds at Arthur Road Hospital.
3rd „ 50 beds at King Edward VII Memorial Hospital.

The initial expenditure would be—

1st year, Rs. 1,50,000 for 1 Dispensary and Hospital for 50 beds.
2nd „ „ 1,50,000 ... ... for 50 „
3rd „ „ 1,50,000 ... ... for 50 „

The annual cost when working would be :—

1st year, 1 Dispensary	Rs. 7,500	per annum.
„ „ 1 Hospital	Rs. 25,000	„ „
	Rs. 32,500	
Grant for relief of the poorer cases in the way of extra nourishment	Rs. 7,500	per annum.
Inclusive of salary of District Registrars of the 10 Municipal Dispensaries	Rs. 6,000	
	Rs. 46,000	per annum.

The question of Sanitoria outside the Island is one which should receive the attention of Government and the Municipalities and the Local Authorities of the Presidency, as they would receive patients from all parts and the initial outlay should be borne by the different bodies aided by voluntary contributions and the annual expenditure defrayed by the authorities sending patients and by receipts from paying patients.

Notification of Tuberculosis is now compulsory in Bombay. The Corporation have sanctioned the provision of a dispensary and accommodation of 25 beds.

High General Death-rate and Tuberculosis Death-rate in Tarwadi.

In November the Corporation invited attention to the extremely high general death-rate and Tuberculosis death-rate in the Tarwadi Section of E Ward and asked what special measures were proposed to be taken, to so improve the sanitary condition of this area as to cause a material reduction in the death-rate (Resolution No. 5162 of 15th November 1915).

The following Report was submitted under No. 33615 of 13th January 1916.

The population of Tarwadi by the Census of 1911 is 28,424 and the density per acre 59·3. As to (1) the alleged extremely high general death-rate and Tuberculosis death-rate, a statement A is attached giving the total and Tuberculosis death-rates of the City and of the Sections (including Tarwadi) whose rates are higher than those of the City for three years 1912-1914. It would appear from the statement that the mortality and ratios for the City and Tarwadi are as under :—

Year.	BOMBAY CITY.				TARWADI.			
	All Causes.		Tuberculosis.		All Causes.		Tuberculosis	
	Mortality.	Death-rate.	Mortality.	Death-rate	Mortality.	Death rate.	Mortality.	Death-rate.
1912	38,954	39·77	2,794	2·85	1,935	68·07	144	5·06
1913	31,806	32·47	2,154	2·19	1,479	52·03	80	2·81
1914	31,853	32·52	1,889	1·92	1,462	51·43	85	2·99

Statement A.

Ward.	Sections.	1912.				1913.				1914.			
		Total Mortality.		Tuberculosis.		Total Mortality.		Tuberculosis.		Total Mortality.		Tuberculosis.	
		No.	Death-rate.	No.	Death-rate.	No.	Death-rate.	No.	Death-rate.	No.	Death-rate.	No.	Death-rate.
	Upper Colaba ...	108	69·36	13	7·70	56	35·96	7	4·49	69	44·31	6	3·85
	Fort North	1,045	41·14	106	4·17	864	34·01	67	2·63	893	35·15	54	2·12
	Mandvi	1,595	48·03	104	3·13	1,191	35·87	98	2·95	1,045	31·47	74	2·22
	Chukla	1,152	57·54	103	4·25	896	36·97	120	4·95	849	35·03	102	4·20
	Umarkhadi	2,667	58·38	344	7·53	1,963	42·97	174	3·80	2,029	44·41	162	3·54
	Dongri	1,473	54·06	109	4·00	1,000	36·70	59	2·16	826	30·31	43	1·57
	Bhuleshwar	1,468	40·26	55	1·50	1,203	33·16	34	·93	1,209	33·16	43	1·17
	Khara Talao	1,169	50·87	91	3·96	907	39·47	88	3·82	919	39·99	74	3·22
	Kumbharwada ...	1,155	41·69	86	3·10	986	35·55	78	2·81	984	35·51	86	3·10
	Mazagon	1,298	48·15	48	1·59	1,098	36·50	29	2·62	1,191	39·60	21	·69
	Tarwadi	1,935	68·07	144	5·06	1,479	52·03	80	2·81	1,462	51·43	85	2·99
	Second Naxpada ...	1,190	54·83	106	4·88	881	40·59	96	4·42	994	45·80	67	3·08
	Kamathipura... ...	1,999	54·39	212	5·76	1,478	40·21	173	4·70	1,523	41·44	197	5·36
	Tardeo	1,190	42·87	116	4·17	1,016	36·60	86	3·09	1,006	36·24	97	3·49
	Byculla	3,722	49·39	109	1·44	2,839	37·67	132	1·75	2,871	38·10	79	1·04
	Bombay City ...	38,954	39·77	2,794	2·85	31,806	32·47	2,152	2·19	31,853	32·52	18·89	1·92

It may be observed that Tarwadi is one of those Sections the death-rates of which I have repeatedly pointed out in my Annual Reports to be only apparently high, *e.g.*, *vide* my Report for 1914 :—" Esplanade (35·02), Tarwadi (51·43) and Byculla (35·10)—these Sections contain Hospitals and should exhibit a much lower rate but for the fact that for want of residential addresses of several patients dying in the Institutions, the deaths have to be referred to the Sections containing the Hospitals instead of to those from whence they come. Sir Jamsetjee Jeejeebhoy, Bai Motlabai and D. M. Petit, the Maratha Hospital, Dr. Masina's Hospital and St. Joseph's Foundling Home are in Tarwadi." This is the largest number of such institutions in any single Section of the City. Into these institutions are admitted patients from all parts of the City and also from the suburbs and occasionally from the mofussil.

Statement B compares the institutional mortality (both total and Tubercular) in Tarwadi Section with such mortality for the whole City in 1912, 1913, and 1914, from which it will be seen that the proportion of deaths from all causes in institutions in Tarwadi is from 51 to 57 per cent. and from Tuberculosis from 52 to 55 per cent. of such institutional deaths in the entire City.

Statement B.

Comparative Statement showing Hospital Deaths in Bombay City and in Tarwadi Section.

Deaths from all Causes.

Year.	Total Hospital Deaths in Bombay City.		Deaths in Hospitals situated in Tarwadi Section.		Untraced Hospital Deaths registered in Tarwadi.	
	No.	Rate per 1,000 of population.	No.	Per cent. to total Hospital Deaths.	No.	Rate per 1,000 of population of Tarwadi.
1912	3,712	3·78	1898	51·13	711	25·01
1913	2,997	3·05	1709	57·02	522	18·36
1914	3,208	3·27	1741	54·27	526	18·50

Deaths from Tubercular Diseases.

1912	356	·36	187	52·52	56	1·97
1913	256	·25	141	55·07	39	1·37
1914	359	·36	191	53·20	33	1·16

Further, it is necessary to state that the Foundling Home alone contributed approximately one-third of the total number of deaths in public institutions. This heavy mortality in children was probably due to the children sent there at a very early age whose prenatal and postnatal conditions are unfavourable and the surroundings of the Home not as sanitary as might be. A new building has now been provided on the Agripada Estate and a diminution in mortality amongst the inmates may be anticipated.

Statement C

Statement showing deaths and death-rate per 1,000 of population in Tarwadi Section.

Total Mortality.

Year.	Published Mortality of Tarwadi.		Untraced Hospital deaths registered in Tarwadi.	Mortality at Tarwadi after deducting untraced Hospital deaths.	
	No.	Rate.		No.	Rate.
1912	1935	68·07	711	1224	43·06
1913	1479	52·03	522	957	33·66
1914	1462	51·43	526	936	32·92

Mortality from Tubercular Diseases.

YEAR.	Published Mortality of Tarwadi.		Untraced Hospital deaths registered in Tarwadi.	Mortality of Tarwadi after deducting untraced Hospital deaths.	
	No.	Rate.		No.	Rate.
1912	144	5·06	56	88	3·09
1913	80	2·81	39	41	1·44
1914	85	2·99	33	52	1·82

The last column of the Statement shows the number of deaths which, for want of residential address, had to be referred to Tarwadi Section ; and it will be noticed that the ratio of such deaths alone per 1,000 of the population in Tarwadi was as under :—

Year.	All Causes.	Tuberculosis.
1912	25·01	1·97
1913	18·36	1·37
1914	18·50	1·16

Statement C gives (1) the gross mortality (*a*) from all causes and (*b*) from Tubercular diseases in Tarwadi Section as published in the Annual Reports of the Department, and (2) the number of deaths under (*a*) and (*b*) credited to Tarwadi for want of residential address and (3) the mortality in Tarwadi after deducting such deaths under (*a*) and (*b*).

It is evident from what has been stated above, that the proper mortality in Tarwadi is represented by the figures in the last column ; these are compared below with those for the whole City for the three years from 1912 to 1914.

Year.	BOMBAY CITY.				TARWADI.			
	All Causes.		Tuberculosis.		All Causes.		Tuberculosis.	
	Mortality.	Death-rate.	Mortality	Death-rate.	Mortality.	Death-rate.	Mortality.	Death-rate.
1912	38,954	39·77	2,794	2·85	1,224	43·06	88	3·09
1913	31,806	32·47	2,134	2·19	957	33·66	41	1·44
1914	31,853	32·52	1,889	1·92	936	32·92	52	1·82

These figures for Tarwadi though higher than those for the City under total mortality are not so high as the Corporation Resolution suggests and gradual improvement is discernible. As to the mortality from Tuberculosis the figures for Tarwadi were higher in 1912 than those for the City, but during the last two years they have been sensibly declining and been more favourable than those for the whole City.

(ii) As to part 2 of Corporation Resolution under report, the following measures for improving the sanitary condition of the area comprised in Tarwadi are being taken :—

(1) Low-lying areas are being filled up.

(2) Swampy places are being raised and obliterated.

(3) Insanitary sheds are being removed.

(4) Temporary bullock sheds are discouraged.

(5) Insanitary areas are improved and insanitary dwellings incapable of improvement are condemned : house-to-house inspection is made and action for improvement of individual houses is also taken.

(6) Action against over-crowding is taken.

(7) Insanitary basket privies are being gradually replaced by water-closets.

(8) House drainage is carefully attended to.

(9) Refuse is removed oftener so as to keep the surroundings of houses as clean as practicable.

(10) Internal and external limewashing is done at least once a year.

(11) Prompt attention is paid to all nuisances and complaints.

As to measures for the reduction of Tuberculosis:—

(1) Special medical relief is given to Tuberculosis patients at Bai Lingubai Dispensary.

(2) Patients and their families are visited in their homes by Nurses and Health Visitors who instruct them as to the precautions to be taken to prevent the spread of the disease.

(3) House to house visitation is made by Special Tuberculosis Officer of the Anti-Tuberculosis League who visits specially houses wherein Tuberculosis patients are notified.

The cumulative effect of all these measures is seen in the gradually lessoning mortality of the Section, and I am of opinion that any special measures than those which are being applied are not necessary.

Prevalence of and Mortality from Enteric Fever.

In August the Corporation (Resolution No. 3269) asked for a report as "(*a*) to the total number of Enteric Fever cases notified and the number of deaths that have occurred in the City in each year from the year 1900 to 1914.

(*b*) If the prevalence and mortality of this fever have been found to be gradually increasing, what are the causes of such increase?

(*c*) The locality or localities in which it is more prevalent and the premises with or without the closed system of drainage.

(*d*) Are there any inherent defect or defects in the localities in which it is found to be more prevalent and what are the measures by which they can be remedied."

The following report was submitted under my No. 31458 of 21st December 1915 :—

Para. (*a*).—The total number of deaths due to Enteric Fever for the years 1900-1914 both inclusive is 1,578 distributed as seen in Table A.

TABLE A.

Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914
No. of Deaths ...	60	62	89	45	55	60	134	116	111	92	156	145	152	154	147

Mean 105.

The total number of Enteric Fever cases notified by private Medical Practitioners and by public Hospitals (the latter are not bound to notify as are the former).

TABLE B.

Year	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914
Medical Practitioners...	25	46	114	115	64	71	76	71	101	170	126
Hospitals...	0	1	12	0	2	1	1	5	6	26	46

TABLE C.

Average rate of notification per 1,000 of population arranged according to Caste (1904-1914).

European	0·68
Eurasians	0·51
Parsees	0·48
Native Christians	0·46
Jews	0·17
Mussalmans	0·05
Hindus	0·04

Para. (*b*) of Resolution.—"If the prevalence and mortality of this fever have been found to be gradually increasing, what are the causes of such increase?"

The two principal sources of information of the existence of Typhoid Fever are (1) the notifications received under Section 421 and (2) the returns showing the number of deaths from this disease. Figures dealing with both these sources of information have already been given in Tables. For purpose of comparison, however, they may be grouped.

TABLE D.

Year	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914
Notifications	25	47	126	115	66	72	77	76	107	196	172
Deaths	55	60	134	116	111	92	156	145	152	154	147

Mean Deaths 110.

TABLE E.

Average cases by Caste (1910-1914).

	Cases per Year.	Rate per 1,000.
Europeans	56·4	4·59
Eurasians	14·2	3·41
Parsees...	55·6	1·09
Native Christians	41·2	1·07
Jews	3·4	0·54
Mahomedans...	18·8	0·10
Hindus	66·2	0·09

From Table A it would appear that Enteric is on the increase in the City. For the 15 years 1900-1914, the mean annual number of deaths was 105. In this period seven years below the mean (*viz.*, 1900 to 1905 and 1909). The other years were above the mean. It is very doubtful whether this apparent increase is a real one. In the first place there is little doubt but that the alleged immunity of the Indian from Enteric was not based on fact, and that the so-called Bombay Remittent Fever was in fact Enteric. It must be remembered that Enteric until comparatively recent years was a disease somewhat difficult to diagnose and in fact it still is in the earlier stages. The establishment of well equipped up-to-date chemical and bacteriological laboratories in various centres has unquestionably given much greater facilities for diagnosis than formerly existed and has enabled the modern practitioner to more often avoid the easy but somewhat indefinite diagnosis of "Fever."

Apart from the facilities given for diagnosis and the wider range of knowledge of "Fevers" now possessed by practitioners, there is evidence of an increased desire of the Medical Profession to comply with the requirements of the Municipal Act in regard to notifications, but it must be remarked even yet there is a considerable tendency to evade this obvious duty to the public as will be seen from the following Table:—

Average number of cases per year (1910-1914)	255
Average notifications per year (same period)	125
Average number of deaths per year (same period)	150

It will be seen that there are fewer notifications of Enteric than there are actual deaths from the disease and less than half the actual number of cases that occur are notified. This cannot and is not due to any ignorance of the obligations imposed by law on Medical men as all have been repeatedly circularised and their attention drawn to the Section of the Act concerned (Section 421). Both in this and other diseases it appears that more vigorous measures will be necessary to enforce compliance with the requirements of the Act and with this in view I have issued a final reminder to the Profession.

Ample evidence exists of the spread of Enteric owing to failure to recognise the disease, and this failure is specially conspicuous in the case of children who are often erroneously held to be insusceptible to Enteric.

An overlooked or an unnotified case may be the source of many others, as the disease has a fairly high infective capacity especially where a number of people are gathered into one house. The main object of notification is to enable adequate precautions to be taken and such are essentially necessary in a City where the system of water carriage of excreta is still in its infancy.

Investigations by Boobyer, Scurfield, Tattersal and others go to show that with the increased proportion of middens in large towns the amount of Enteric also increases. Delepine has shown that the bacilli of Enteric can remain alive for a whole year in the wall of a midden and this taken with other experiments appears to show that the bacilli under suitable circumstances are capable of retaining their vitality over long periods. Extensive investigations carried out in Manchester and other cities show that houses furnished with W. C's. are in much less close association with Enteric fever than are those furnished with pail (or basket) closets and middens.

In the case of Bombay—

No. of houses in which Enteric Fever occurred and class of closet is known.	Basket.	Water.
1,557	1,011	546

It is obvious that given an overlooked or unreported case of Enteric in a house provided with basket privies often in dangerously close proximity to dwelling and cook-rooms of the same or adjoining houses; many facilities are given for the conveyance of the bacilli to exposed articles of food also by means of flies.

So far we have dealt only with the information available from notifications and death returns. There is, however, another source of information available, *viz.*, the Returns of the District Registrars, and the following table gives the *Number of Cases* of Enteric as a rate per 1,000 of population in those districts where the death-rate is above the mean.

TABLE F.

(Years 1910-14) average per year.

Sections.	Europeans.	Eurasians.	Parsees.	Native Christians.	Jews.	Mahomedans.	Hindus.
*Upper Colaba	14·62	...	...	1·76	...	...	...
Fort South	4·23	7·27	2·08	0·97	...	...	0·22
Esplanade	10·18	8·71	...	2·28	3·03	0·06	0·03
Fort North	9·65	7·74	1·43	0·87	..	0·27	0·10
Tarwadi	5·07	2·01	1·34	3·51	0·69	0·51	0·13
Dhobi Talao	2·23	24·2*	1·15	1·66	...	...	0·16
First Nagpada	3·30	5·81	...	5·31	0·89	...	0·09
Middle and Lower Colaba ...	3·99	8·36	0·36	0·11	0·00	0·24	0·01
Chowpati	2·94	43·0	1·16	0·45	...	1·20	0·05
Girgaum	...	2·43	...	1·64	...	...	0·31
Khetwadi	10·60	...	1·25	0·18	...	0·05	0·18
Mazagon	4·15	4·79	0·56	4·08	...	0·04	0·04
Docks	3·43	..	...	0·11	...	...	...
Fanaswadi	...	..	0·69	1·33	...	...	0·23

* Population very small.

Table C is of interest in showing the prevalence of notification in the various castes. It will be seen that a very much greater proportion of Europeans, Eurasians, Parsees and Native Christians are notified per 1,000 of the respective populations than in the case of Hindus and Mahomedans.

In the case of Parsees and Native Christians as compared to Hindus, it amounts to 12 and 11½ to 1 respectively.

Para. C. of Resolution. "The locality or localities in which it is more prevalent and the "premises with or without the closed system of drainage."

TABLE G.—Shows the death-rates per 1000 in the various Sections of the City for the years 1902-1914.

Deaths (per 1000).

Ward.	Sections.	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	Average.
A	Upper Colaba	2·52	·50	·75	...	·52	·26	·26	·26	·79	·64	·64	...	...	0·55
	Middle and Lower Colaba ...	...	·23	·07	·15	·39	·06	·13	·19	·39	·40	·30	·40	·05	0·21
	Fort, Southern	1·01	·30	...	·30	1·26	...	...	1·26	·50	·46	...	·86	·86	0·52
	Fort, Northern	·47	·08	·08	·08	·20	·06	·20	·17	·41	·47	·51	·43	·74	0·03
	Esplanade	·48	·19	·28	·50	·81	·18	1·18	·27	·99	·33	·16	·16	·33	0·45
B	Mandvi	·06	...	·06	...	·15	·23	·02	·07	·05	·06	·15	·12	·18	0·09
	Chukla	...	·04	·04	...	·03	·03	·06	·06	·03	·08	·04	·04	·08	0·04
	Umarkhadi	·10	·04	·10	·02	·05	·13	·07	·07	·18	·17	·15	·08	·10	0·09
	Dongri	·03	...	·07	·19	·03	·03	...	·06	·06	·07	·11	·07	...	0·05
C	Market	·07	·14	·13	·10	·08	·02	·11	·02	·14	·13	·19	·19	·19	0·11
	Dhobi Talao	·20	·03	·13	·06	·13	·32	·35	·27	·43	·41	·49	·38	·21	0·27
	Fanaswadi	·06	·12	·06	·06	·10	·23	·10	·17	·10	·14	·40	·29	·21	0·15
	Bhuleshwar	·03	...	·06	·03	·05	·10	...	·05	·07	·08	·08	·13	·05	0·05
	Khara Talao	...	·04	...	...	·07	·04	·14	...	·03	·04	·08	·08	...	0·04
	Kumbharwada	·10	...	·03	·03	·12	...	·03	...	·03	·10	·10	...	·10	0·05
D	Khetwadi...	·11	·03	·11	·07	·20	·14	·32	·14	·20	·21	·25	·40	·25	0·16
	Girgaum	·20	·06	·06	·33	·14	·10	·14	·31	·17	·32	·32	·35	·19	0·20
	Chowpati...	...	...	·14	·29	·07	·23	·15	·23	·23	·43	·70	·26	·08	0·21
	Walkeshwar	·09	·09	·28	...	·07	...	·07	...	·15	·05	...	...	·09	0·07
	Mahalakshmi	...	·11	·05	·10	·20	...	·20	·08	·24	·11	·19	·34	·19	0·12
E	Mazagon	·21	·07	·14	·21	·09	·16	·19	...	·16	·23	·16	·19	·26	0·16
	Tarwadi	·21	·27	·16	·16	·83	·49	·30	·22	·22	·31	·14	·17	·24	0·28
	Second Nagpada...	...	...	...	...	·09	·09	·04	...	·13	...	13	·04	...	0·04
	Kamathipura	·07	...	...	·07	...	·08	·02	...	·02	·02	...	·05	...	0·02
	Tardeo	...	...	·09	·04	·17	·10	.07	·10	·28	·10	·10	·18	·10	0·10
	Byculla	·12	·06	·01	·05	·07	·11	·06	·05	·14	·03	·09	·11	·07	0·07
	First Nagpada	...	...	·09	...	·59	·59	...	·29	·89	·31	·15	·15	·31	0·25
F	Parel	·05	·05	·08	·08	·08	·04	·06	·06	·02	·04	·04	·04	·06	0·04
	Sewri	...	...	...	...	·06	...	...	...	...	·05	...	...	...	0·08
	Sion	...	...	...	...	·03	·03	·03	·06	·09	...	·16	·06	·22	0·05
G	Mahim	·07	...	·03	·03	·16	·19	·09	...	·06	·09	·03	·09	·06	0·06
	Worli	·06	·02	...	...	·08	·02	·02	·16	·07	·07	·05	·06	·06	0·05
	Harbour, Docks, Railways and Homeless ...	·13	·13	·02	·07	·03	·81	·06	·07	·21	·13	·04	·11	·24	0·15
	Total ...	·10	·05	·07	·09	·13	·11	·11	·09	·15	·14	·15	·15	·16	.....

TABLE H.

Ward.	Sections.	Total No. of Notifications during the period 1904-1914 received from Practitioners.	Average No. of Deaths per 1,000 of Population from Enteric during period 1902-1914.
A	Upper Colaba	2	0·55
	Middle and Lower Colaba	22	0·21
	Fort, Southern...	3	0·52
	Fort, Northern...	54	0·30
	Esplanade	10	0·45
B	Mandvi	52	0·09
	Chukla	15	0·04
	Umarkhadi	29	0·09
	Dongri	5	0·05
C	Market	26	0·11
	Dhobi Talao	112	0·27
	Fanaswadi	46	0·15
	Bhuleshwar	25	0·05
	Khara Talao	5	0·04
	Kumbharwada	8	0·05
D	Khetwadi	82	0·16
	Girgaum...	70	0·20
	Chowpati	28	0·21
	Walkeshwar	12	0·07
	Mahalakshmi	34	0·12
E	Mazagon...	45	0·16
	Tarwadi	43	0·28
	Second Nagpada	13	0·04
	Kamathipura	4	0·02
	Tardeo	47	0·10
	Byculla	82	0·07
	First Nagpada	2	0·25
F	Parel	29	0·04
	Sewri	1	0·08
	Sion	12	0·05
G	Mahim	31	0·06
	Worli	29	0·05
	Harbour, Docks, Railways and Homeless ..	1	0·15
	Total ...	979	Mean=0·14

It will be seen that the following districts have a death-rate above the mean of the whole City (*viz.*, 0·14 per 1,000).

(1) Whole of A Ward.
(2) Dhobitalao and Fanaswadi in C Ward.
(3) Khetwadi, Girgaum and Chowpatti in D Ward.
(4) Mazagon, Tarwadi and 1st Nagpada in E Ward.
(5) Docks and Harbour.

Placed in order of Death-rates.

		Contains.
Upper Colaba	0·55	Colaba Lunatic Asylum and Colaba Station Hospital.
Fort Southern	0·52	(Lady Hardinge War Hospital.)
Esplanade	0·45	Albless and Cama Hospitals, Goculdas Tejpal Hospital, Marine Lines War Hospital and St. George's Hospital.
Fort Northern	0·30	
Tarwadi	0·28	Dr. Masina's Hospital, Bai Motlabai & D. M. Petit Hospitals, and Sir J. J. Hospitals.
Dhobitalao...	0·27	
1st Nagpada	0·25	
Middle and Lower Colaba ...	0·21	
Chowpatti	0·21	(Seva Sadan Hospital.)
Girgaum	0·20	
Khetwadi	0·16	(Dr. Bhajekar's Hospital.)
Mazagon	0·16	
Docks	0·15	
Fanaswadi...	0·15	

Para. C of Resolution (2)—" Are the premises in which cases occurred with or without the closed system of drainage ? "

Ward.	Basket Privies.	W. Cs.	Drains.		Imported Cases.	Cases from Harbour.
			Open.	Closed.		
A	121	198	102	26	119	141
B	143	39	113	63	4	.....
C	271	64	249	79	3	.....
D	132	73	173	32	.....	.....
E	152	135	81	49	.....	.....
F	53	26	51	29	2	.....
G	119	11	104	26	.....	.....
Total ..	991	546	873	304	128	141

Owing to the defective notification, it is difficult to gauge accurately the incidence of the disease.

It will be seen from the following statement that the number of cases of Enteric admitted into the Hospitals in the City during the last five years was 642; the actual number of cases that occurred must have been much larger, while the number of cases notified was only 544.

.....	No. of Enteric Cases treated in Civil Hospitals in the City.	No. of deaths among those treated in Hospitals.	No. of notifications received from Private Medical Practitioners.
1910	115	54	76
1911	133	45	71
1912	125	37	101
1913	121	33	170
1914	148	43	126
Total (1910-1914) ...	642	212	544

From the returns of Civil Hospitals, the annual average mortality in the Hospitals in Bombay during the last five years was 32·8 per cent. compared to 18 per cent. of cases treated in English Hospitals.

The mortality of cases notified in English Towns is about 22 per cent.

Assuming that the mortality per case treated in Bombay both by Hospitals and privately was 32·8 per cent., then the number of notifications should be 460 instead of 109 per annum.

The localities in which the number of cases notified was higher are those in which the people take advantage of skilled medical advice, and notification is more accurate because of the facility of diagnosis and because hospitals exist.

One very important fact in the incidence of the disease in the localities of A Ward is the number of imported cases, namely, 38·9 per cent.: these are among people who come to Bombay by sea and rail, Officers of Ships and Railways who contract the disease outside Bombay and are removed to Hospital or treated in hotels or private houses.

Cases treated in private houses under conditions which exist in India more readily spread the disease than those treated in Hospital, while convalescents may also readily convey the disease to others and act as what are known as "carriers."

Beyond the reasons given above, there is no evidence to show that there are any inherent defects in the localities where the larger number of cases have occurred.

Prevalence of Flies in Tardeo

The Corporation having under their Resolution No. 4302 of 7th October 1915 called for a report on "the cause or causes of greater prevalence of flies in the Tardeo District than in other parts of the City" asked :—

What are the causes of their greater prevalence at some periods of the year than at others, as stated by the Commissioner in his letter No. 18267, dated the 25th August 1915 ?

What steps have already been taken by the Health Department to minimise the nuisance and danger arising from these noisome creatures and what further measures do they propose to take to relieve the locality of this grave menace ?

In what year was the reclamation of the storm-water reservoir with kutchra undertaken ?

What was the area reclaimed every year ?

What quantity of earth, and at what cost, was used each year to cover the refuse to prevent the breeding of flies during the monsoon ?

What was the cause of the very extensive breeding of flies during the last year for which bitter complaints were raised in Papers and at the Corporation, and for which the Corporation passed a resolution requesting the Commissioner not to deposit refuse there during the monsoon?

If the present method is not harmful to the City, as declared by the Health Officer, what are the reasons for not utilizing the whole quantity of the City's refuse for reclaiming the Reservoir instead of sending half the quantity to Deonar ?

The following Report was submitted under my No. 29976 of 10th December 1915 :—

At the outset the Resolution invites attention to a letter appearing in the "Jame-Jamshed" over the signature of a "Resident of Tardeo," and assumes from that letter that there is greater prevalence of flies in the Tardeo District than in other parts of the City. Statements in the Press by anonymous correspondents are notorious for their exaggeration and looseness of style and this particular article is no exception. In the absence of information of the exact locality, it is impossible to report on the complaint with any degree of accuracy. There may be local causes, such as the presence of stables in the vicinity, which would easily account for the fly nuisance complained of. But for want of definite information as to the particular locality it is not possible to give a definite opinion.

Tardeo District comprises a large area. It extends from Suklaji Street on the East to Cumballa Hill on the West, and Clerk Road on the North to Grant Road on the South. Within this area, there are many large milch cattle, livery, horse and bullock stables, and anywhere in their vicinity flies are likely to breed in large numbers, especially at the commencement of the rains. But the fly nuisance is not any greater here than in any other locality with similar surroundings.

The third question relates to the measures already taken and proposed to be taken to minimize the fly nuisance. All measures, which have for their object the general cleanliness of the town, are the best safeguards against flies. The constant removal of rubbish and filth, the speedy removal and incineration of refuse, the frequent and careful cleansing of all places and establishments, which may leave putrescible matters to stagnate, the repeated washing of streets and gullies, and the introduction of the water carriage system of privies, are measures of an administrative character, which will most usefully effect protection against the dangers arising from the presence of flies. Some of these measures are being carried out in this City, but a great deal yet remains to be done, especially in the matter of putting up of incinerators, which I have been demading for last ten years, and the wholesale conversion of basket privies into water-closets.

We are regularly and systematically flushing gullies and privies and treating them with pesterine, which not only kills flies but their eggs and larvæ. We have introduced motors for the more rapid removal of refuse from the City. We have done away with a large number of stationary dust-bin carts, and introduced travelling carts and sanitary closed dust-bins instead. We are keeping our streets and gullies as clean as possible by frequently sweeping them. All basket privies are cleaned twice a day. There is regular inspection of all privies and public stables, and wherever accumulations of refuse exist, the owners are prosecuted. All these measures have had an influence for the better in abating the fly nuisance but a good deal yet remains to be done. I am of opinion that the public ought also to be educated in the dangers with which they are surrounded in the abundance and increase of flies and to avoid accumulation of refuse and the throwing of refuse in the passages between the houses.

Question No. 4.—The reclamation of the Reservoir was started on the 1st April 1911.

Question No. 5.—It is not possible to give the area reclaimed each year, as the first filling in was done up to a depth of 10 feet, and after a considerable portion had been reclaimed, we had to do it over again for the second and third time owing to sinkage. Up-to-now, however, we have occupied about 30 acres of the reservoir, 5 of which are covered by dung pits. 20 have been completed, and 5 are still being reclaimed.

Question No. 6.—During the first two years, as the depth to be reclaimed was about ten feet, and as a greater portion of the area reclaimed was for roads, we made slow progress and the earth, stone and rabit, which we received from the various parts of the City was quite sufficient to effectually cover the refuse. Arrangements are now made for covering the refuse as it is deposited.

It is true that on account of the proximity of the northern end of Tardeo Road to the Flats, the residents of the few bungalows in that area suffer from the fly nuisance in the monsoon months. This is very probably due to the fact that town sweepings have to be brought to the Railway Sidings for loading into trains for Deonar; and this is what is to be expected as long as this system is in force. This work, although greatly improved, must continue for sometime, and even when an Incinerator is established on the Flats, it will be necessary to bring the sweepings to it, though they will be disposed of far more rapidly than can be done at present; and it is possible then that the number of flies in this locality will be greatly reduced.

The system of taking the refuse through miles of streets and putting it into waggons and then hauling the loaded waggons from the City to Deonar and bringing them back empty is one which accentuates the fly nuisance and it is marvellous that so little nuisance is caused.

About the end of August last, I took an approximate Census of flies by placing tangle-foot fly papers in various parts of the City at 22 places for three consecutive days. More than 80,000 flies were caught each day. The results obtained by this Census go to prove that Tardeo Flats are not the only breeding areas for flies. It was specially noticeable that eating-houses, milch cattle, bullock and horse stables, waste food and kitchen refuse and night-soil depôts offered particular attraction to flies, and in such places we were able to catch many more flies than in areas in the immediate vicinity of the Flats. A large number of flies are actually brought to the Flats by Municipal and private scavenging carts, when the latter come to deposit their contents into the Railway waggons or the Reservoir. This fact proves that the Tardeo Flats are not the sole areas where flies breed. Waggons and carts returning empty contain a number of flies, and these are sprayed with pesterine which immediately kills the flies.

The next question asked in the Resolution is what are the causes of their greater prevalence at some periods of the year than at others. It is a well known fact that flies are much more numerous and much more in evidence inside houses in the monsoon months than at any other time of the year. This is due to the fact that flies have a great predilection for

decaying matter and particularly fresh and moist decaying matter attracts them more than old and dry refuse. To lay their eggs, the female flies seek moist organic substances in decomposition, so that the larvæ will be assured of nourishment. Such environments and conditions are much more abundant in the rainy season than in the dry season, and naturally in the wet weather, flies seek shelter inside the houses. Hence they are much more noticeable at that time of the year. As soon as the rains cease, they disappear and at present time even where town sweepings are deposited, there are very few flies and they remain where they find suitable environment.

Question No. 7.—I do not know what grounds there are for assuming that there was a very extensive breeding of flies during the last year, nor am I aware of any bitter complaints raised in papers regarding this matter. I am therefore unable to answer this question. But I am in a position to state that compared with other Cities in India, the absence of flies except for two months in the year is most remarkable and has been pointed out to me by visitors and Health Officers from other cities, and I have been constantly asked why there are so few flies in Bombay.

Regarding the last question, the reasons for not utilizing the whole quantity of the City's refuse for reclaiming the reservoir are the following :—

(*a*) The pumps at Love Grove, Worli, are not sufficient to deal with a large quantity of sewage and storm water, and so a reservoir for it has to be retained until such time as means have been provided to dispense with its necessity.

(*b*) Refuse from A Ward and the greater portion of B Ward is brought to the Flats in Railway Waggons from the Colaba and Carnac Bridge Sidings There are also 13 motor waggons bringing refuse to the Flats from different parts of the City. All this refuse cannot be taken to the Reservoir without laying rails and making pucca roads, which would bear the weight of the motors. This question however is under the consideration of the Commissioner.

In conclusion, I would like to state that the Resolution suggests that the reclamation of the Reservoir is the cause for the increase in the number of flies in the neighbourhood.

The manner in which this work is being done is not harmful to the City. Care is always taken to cover the refuse with a layer of earth (and this method is recognised as being the best for the disposal of refuse where Incinerators are not available) and in the monsoon months pesterine is also used to keep down the flies. When the reclamation of this reservoir is completed, a great unhealthy marsh will be removed from our midst, and a suitable site for a public park and recreation ground will be provided.

Contamination of Ice through dirty Saw dust.

The Police Surgeon of the City having, in a letter to the "Times of India" (of 11th August 1915), drawn attention to the danger of contamination of ice through dirty saw-dust, the Corporation asked what measures were proposed to be taken to prevent such contamination (Resolution No. 4294 of 7th October 1915).

My report was submitted under No. 24177 of 28th October 1915, pointing out that the danger of such contamination is not so great as depicted in the letter of the Police Surgeon.

According to an eminent American Bacteriologist, George. C. Whipple, with ordinary precautions the danger of infection through ice is "so infrequent that it need never give concern to the water drinker who tinkles the ice in his glass, or to the dealer in food who uses ice to pack his perishable goods."

There is no doubt that ice can get contaminated with pathogenic bacteria by contact with dirty saw-dust, but their further multiplication is inhabited at that temperature. The contamination in such cases is mostly superficial, unless there are crevices in the ice, and it can be easily obviated by washing the ice. This precaution of washing the ice is invariably taken by everybody, and hence the danger is needlessly magnified in the Police Surgeon's letter.

The chances of contracting Tuberculosis or Dysentery in this way are very remote.

Measures to prevent saw-dust spread on the footpath of Bombay from being contaminated by some germ or other would be difficult. I doubt very much if this germ-laden saw-dust is swept up from the footpath and used again by the Ice Factory, but measures will be taken to prevent it. It is desirable to take every precaution to prevent the possible contamination of food or water or ice, and this can be done when eating-houses, &c., are brought under Municipal control. This matter is before the Legislative Council, and as soon as the necessary

amendments in the Municipal Act are made, it will be possible to insist upon eating house-keepers to have a proper ice-box to keep ice, and to prevent them from spreading out saw-dust to dry on the foot-paths.

Powers of direct control over food-stuffs and drugs.

The Corporation under their Resolution No. 2602 of 26th July 1915 asked "in view of the present lack of control over food-stuffs and drugs," (1) what steps should be taken to remedy, etc.? (2) what measures were necessary in order to secure for the Corporation a more systematic and expert inspection of Hotels, Restaurants, Boarding Houses, and other similar establishments as far as concerns the hygiene and sanitary cleanliness of these places, the more so especially as regards their kitchens, the transport, handling and storage of food-stuffs, etc., and the exposure of such food-stuffs, etc., for sale."

My Report was submitted under No. 21758 of 7th October 1915 pointing out that the subject had been reported upon by me in one form or another on frequent occasions.

"As regards the first para. of the Resolution I would particularly refer you to this Office No. 6347 of 23rd May 1912.

"Sections 413 to 417 of the Municipal Act provide for the inspection of places for sale of articles of food and how unwholesome articles can be dealt with. The Bombay Prevention of Adulteration Act of 1899 deals with ghee and milk, and there is a new Section, *viz.*, Section 412 A, under which licenses have to be obtained by dealers in milk for selling the articles, and also for using any place for the sale thereof.

"The defects in the working of the Bombay Prevention of Adulteration Act of 1899 have been pointed out by me on various occasions, but they have not yet been remedied."

The powers under the above mentioned Sections are not adequate, as no penalty can be inflicted on a person selling articles of food which are diseased, unfit, or otherwise not what they are represented to be. The agency to give effect to these powers is also insufficient. I shall refer to this matter later on.

"Now as regards the second para. of the Resolution, I would refer the Commissioner to the correspondence ending with this Office No. 13879 of 3rd August 1911 in which a very exhaustive report on the condition of the Eating Houses and Restaurants in Bombay has been made by my Assistant Dr. Goldsmith.

"Owing to the system of co-operation with the Police, a marked improvement in the condition of these Eating Houses has been brought about, and in the case of new licenses only those premises which are free from sanitary defects are approved of and in almost all the cases the proprietors have responded to the demand for the provision of proper receptacles for water, food, fuel, etc. Still, however, a great deal remains to be done in regard to these places which cater for a large number of the poor working classes, and the low paid and unmarried populace."

As has been pointed out by me on previous occasions, we are unable to exercise any direct control on the conditions under which food is prepared in these places. The Commissioner is aware only such of the Restaurants or Eating Houses are licensed by the Police as are kept open between the hours of 9 p.m. and 5 a.m. Those that are open up to 9 p.m. only, require no license from the Police.

To remedy this evil, it has already been proposed by me that the words "keeping of Eating Houses" should be inserted in the list of trades specified in Part IV of Schedule M of Section 394 of the Municipal Act, and the following definition of the term "Eating House" also inserted in the Act:—

"Eating House" means "any premises to which the public are admitted and where any kind of food is prepared or supplied for consumption on the premises for the profit or gain of any person owning or having an interest in or managing such premises."

This matter is now before Government as will be seen from the correspondence ending with the Commissioner's No. 11109 of 2nd August 1913 addressed to the Secretary to Government (General Department). When the Act is amended in the desired direction, and when it becomes law it will be possible not only to control the regular eating houses, but also the conditions under which other kinds of food, such as native sweets, are prepared. My Assistants are drawing up a report on the condition of the various Sweet-meat shops in the City.

For obvious reasons when all these Eating Houses and Sweet-meat shops come to be licensed by the Municipality, their control should be vested in the Health Department, in the same way as the control of the milk shops licenses has been recently given to that Department.

I have already mentioned above that we have no adequate staff for inspecting and dealing with Food stuffs, and the places where food is prepared. I have frequently asked for qualified Food Inspectors. These should now be supplied one for each Ward, *i.e.*, nine in all. There should be an equal number of Sub-Inspectors and Peons under them.

Unwholesome Food seized and destroyed.

During the year, action under Sections 415 and 416 of the Municipal Act for the seizure and destruction of unwholesome food was continued as usual by the Staff of this Department and a list of such articles seized and destroyed in several Wards is subjoined.

A WARD—192 Mangoes.

B WARD—272 Mangoes, 45 Plantains, 52 Oranges, 75 Guavas, 300 Grapes, 2 bags of Rice, 10 bundles of Ham, 46 cases of Cheese, 12,800 Cocoanuts.

C WARD—2,856 Mangoes, 596 Plantains, 374 Guavas.

D WARD—950 Mangoes, 150 Pine Apples, 26 Guavas, I Jack Fruit, One basket-ful of Ahmedabadi Mewa.

E WARD—25 Plantains and 1,030 Mangoes.

F WARD—275 Mangoes, 48 Plantains, 22 Water Melons, 137 Potatoes, 20 Seers of Onions, 33 lbs. of Dry Fish, 3 lbs. of Sweet-meat, 60 Oysters and 1 basket of Prawns.

G WARD—282 Mangoes, 31 Plantains, 37 Seers of Potatoes, 39 Oranges, 6 seers of Sweet-meats, 5 lbs. of bad Meat, 30 lbs. of bad Fish, 12 rotten Cocoanuts, 2 Seers of Mangoe-pickle, 9 seers of Bad Date, 7 lbs. of Vegetables, Onions, &c., 9 pieces of Pupnees and 3 Melon slices, 25 lbs. of Sour Juice and 6 lbs. of Sour Milk.

Work done by the Department: Appreciation.

It is with great satisfaction that I remark on the work done by the Staff of the Health Department in 1915. Although it has been a year of records as far as an improved condition of the health of the City, it has also seen large strides made in the direction of general Public Health administration, the development of the conservancy work, and a wider view of the legitimate sphere of Public Health work and Malarial operations: My Assistants Dr. Goldsmith and Dr. Sorab are always in touch with the work of the City and their constant and keen attention has been of great assistance; the Deputy Health Officers have had the work increased and have responded right well.

Dr. Shroff, Assistant for Malaria, has had much to do and has carried out his duties with efficiency and tact and very successfully.

The District Registrars had comparatively an easy twelve-month, but more work has been put on them in the way of house to house visitation for inquiring in sickness, especially with regard to Tuberculosis.

Dr. Choksy, at Arthur Road and Maratha Hospitals, had a light year, one out of many very hard ones, and his skill and attention have again been of great service to the patients.

Dr. Joshi and his Assistants in the Laboratory have maintained their high standard of work, while Dr. Nerurkar has been extremely busy with the work of vaccination which he carries on so successfully.

About the Clerical Staff it is difficult to say too much. Mr. Kowshik, the Head Clerk, has had extremely busy time and his work deserves all praise, as he has not only to control the Head Office but supervise the Registration Branch and prepare all the clerical work which is very great.

Mr. Nagindas Jamnadas is untiring in his work and has at his fingers' ends every detail.

The rest of the Clerical Staff has continued to help in every way and it is gratifying to know that their status and pay is to be improved.

The extra work thrown on the out-door staff in the latter part of 1914 continued throughout the year and it is pleasing to know that they have been thanked by the Military Authorities and the Corporation.

Chief Inspector Underdown's work is deserving of some recognition.

J. A. TURNER, M.D., D.P.H.,
Executive Health Officer.

PUBLIC HEALTH DEPARTMENT,
Bombay, 3rd April 1916.

Report of the Arthur Road Hospital for the year 1915.

I.—Administration.

1. There were no changes in the staff during the year.

II.—General Statistics.

2. The total number of admissions was 878, as compared with 826 in 1914, and 791 in 1913. The maximum number of patients treated on any particular day was 126 as contrasted with 74 and 82 in 1914 and 1913 respectively.

3. The principal admissions were from Small-pox, 440; Chicken-pox 106: Measles, 44; Cholera 16; Whooping Cough 15; Erysipelas 11 and Mumps 22, as compared with 283, 34, 71, 137, 9, 8 and 6 respectively in 1914.

4. Among the unusual cases admitted, were the following:—(*a*) One case of Scarlet Fever in a European student from St. Mary's High School; (*b*) 14 cases suffering from Chiggre from East Africa. All these patients recovered.

The following table shows the details of admissions, deaths, recoveries and case-mortality rate per cent.:—

Diseases.	Admissions.	Deaths.	Recoveries.	Case-mortality rate per cent.
Small-pox	440	99	341	22·50
Chicken-pox	106	.....	106	.....
Measles	44	4	40	9·09
Cholera	16	2	14	12·5
Whooping Cough	15	2	13	13·3
Erysipelas	11	1	10	9·09
Relapsing Fever	.....	.....	.....	.....
Mumps	22	1	21	4·5
Plague	1*	.....	.....	.....
Diphtheria	.....	.....	.....	.....
Chiggre	14	.....	14	.....
Scarlet Fever	1	.....	1	.....
Observation Cases	208	31	177	14·9

* Transferred to Maratha Plague Hospital.

5. Six pilgrims were admitted during the year, as compared with 60 in 1914. They had Small-pox. 2 died and 4 recovered. Three of them were vaccinated and three unvaccinated.

III.—Small-pox.

6. The disease prevailed as usual during the first six months of the year, as well as during December. Sporadic cases, however, continued to be admitted throughout the interval; in fact there was not a single day of the year when there were no Small-pox patients under treatment. Although the admissions were more than 50 per cent. higher than in 1914, the case mortality rate was lower by over 2 per cent.

(*a*) *The Vaccinal Condition of Small-pox patients.*

7. The vaccinated patients who numbered 267 (including Goans) had the low mortality rate of 12·35 per cent. as compared with 36·99 per cent. among the 173 unvaccinated. The mortality rate among the former was extremely low as compared with the previous years, except in 1911, when it was 10·8 per cent. The mortality rate in unvaccinated cases during the year was almost three times as great as among the vaccinated. The mortality among the vaccinated Hindoos (158) was as low as 8·8 per cent. whereas amongst the unvaccinated (53) it was as high as 45 per cent.

The following statement compares the figures among the two classes and their mortality for the last seven years :—

Year.	Vaccinated Patients.		Unvaccinated Patients.	
	Number.	Case-mortality rate per cent.	Number.	Case-mortality rate per cent.
1909	226	14·1	187	42·2
1910	399	18·0	286	41·9
1911	202	10·8	138	39·8
1912	426	16·9	232	40·51
1913	132	18·18	71	36·62
1914	182	19·23	101	33·66
1915	267	12·35	173	36·99

(*b*) *The Vaccinal Condition of Children under* 10 *years.*

8. The information required by Government Resolution, in the General Department, No. 3231, dated the 21st May 1912, as to the vaccinal condition of children upto 10 years of age, who were admitted for and died of Small-pox during the year is as follows :—

Year 1915.	Vaccinated.				Unvaccinated.			
	Admitted.	Died.	Recovered.	Case-mortality rate per cent.	Admitted.	Died.	Recovered.	Case-mortality rate per cent.
1 to 6 Months'	1	.....	1	.....	6	3	3	50·00
7 to 12 „	2	.....	2	.....	5	2	3	40·00
1 to 5 Years	14	2	12	14·28	12	2	10	16·25
6 to 10 „	24	1	23	4·16	8	2	6	25·00
Total ...	41	3	38	7·31	31	9	22	29·03

It appears from the above table that the fatality rate among the unvaccinated children was about four times as high as in the vaccinated, *i.e.*, 29·3 per cent. as compared with 7·39 per cent. only.

IV.—Other Diseases.

9. The other diseases treated during the year scarcely call for special remarks. The incidence of Cholera was practically nil and almost all the cases treated were imported. Of the 22 cases of Mumps treated, one was of a very unusual type and was complicated with suppuration which is a rare complication of the disease. All the cases of Chiggre were practically convalescent and the attempt to extract the insects were unsuccessful as the same had been removed on board.

It was observed in the Scarlet Fever case that the throat was almost normal, in marked contrast to the rash and exfoliation of the epidermis which was severe, large flakes falling off in succession for a considerable time. Relapsing Fever was entirely absent throughout the year.

10. The Hospital staff worked zealously and Mr. A. De Silva, the resident Hospital Assistant, carried out his duties with marked efficiency as usual.

Arthur Road Hospital,

Dated 12*th February* 1916.

N. H. CHOKSY, M.D., F.C.P.S.,
Special Assistant Health Officer,
In charge, Arthur Road Hospital.

Report of the Maratha Plague Hospital for the year 1915.

I.—Administration.

1. There were no changes in the Staff during the year under report.

II.—General Statistics.

2. The total number of admissions was 161 as compared with 466 and 437 during 1914 and 1913, respectively.

3. The admissions from Plague numbered 135, as contrasted with 440 in 1914 and 392 in 1913.

4. There were 26 cases admitted under observation, the same number as in the previous year, of whom 4 died and 22 recovered.

5. The case-mortality rate among Plague cases was 71·85 per cent., as compared with 75·45, 74·74 and 73·10 during the previous three epidemics.

6. Since 1906, a continuous and steady decline in the admissions from Plague has been observed; it was however interrupted in 1911 and again in 1913 and 1914. The year under report recorded the lowest admissions since the Maratha Hospital came into existence. The following Tabular Statement shows the admissions, deaths and case mortality rate per cent.

Statement showing the admissions from Plague deaths and mortality rate.

Years.	Admissions.	Deaths.	Mortality rate per cent.
1901	1,518	1,168	76·94
1902	1,258	1,026	81·55
1903	1,371	1,046	76·29
1904	1,080	797	73·79
1905	1,395	1,051	75·34
1906	944	666	70·52
1907	611	445	72·35
1908	609	432	70·93
1909	608	488	80·26
1910	440	339	77·04
1911	565	423	74·8
1912	238	174	73·10
1913	392	293	74·74
1914	440	332	75·45
1915	135	97	71·85

7. The case-mortality rate has varied from 70·52 per cent. to 81·55 per cent. It has been affected firstly by the varying ratios of septicæmic and highly toxæmic cases year after year, and, secondly by the line of treatment adopted. During the period of serum treatment from 1904-1908 and 1911-1913 an almost uniformly lower rate was noticeable, although the treatment was applied in a small proportion of suitable cases.

III.—The Treatment of Plague by Iodine.

8. Some further observations in the treatment of plague by Iodine were made during the year, and they indicate that the treatment has no influence on the course of the disease, or in lowering its rate of mortality. The number of patients treated was 88, of whom 64 died and 24 recovered, equivalent to a case-mortality rate of 72·7 per cent. Among the 24 cases who recovered about half were of a comparatively mild type.

The cases were distributed as under according to the duration of disease :—

Day of disease.	Number Treated.	Died.	Recovered.	Case mortality rate per cent.
First	1	1	.....	100·00
Second	33	26	9	74·00
Third	38	28	10	73·60
Fourth	10	5	5	50·00
Fifth	4	4	.....	100·00

9. The above observations as also those conducted by Major W. Glen Liston at the Maratha Hospital in 1914, are sufficiently conclusive to determine, that Plague as observed in Bombay is unaffected and not amenable to treatment by iodine. It is not desirable therefore in the interests of the patients that they should be placed under treatment by iodine to the total exclusion of other well-recognised remedies especially those that act upon the heart and the circulatory apparatus. Had all the patients above noted been treated by iodine alone as suggested by Commissioner Booth-Tucker, the rate of mortality would have been considerably higher than 72·7 per cent.

10. Unless therefore the so-called observations in the Punjab, conducted by laymen and unqualified "workers" are subjected to and controlled by Medical men with some experience of plague, they are not worth any serious notice, no matter how loudly they may be vaunted.

N. H. CHOKSY, M.D.,
Special Assistant Health Officer,
In charge, Maratha Plague Hospital.

Maratha Hospital,
Dated 31st March 1916.

Report on Malaria Operations for the year 1915.

I have the honour to submit herewith my fourth Annual Report on Anti-Malarial work done in the City for the year ended 31st December 1915.

2. The present Inspectorial staff consists of one Medical man, another who has passed the Examination in Malarial Class at Delhi, and two others who have been selected out of the Sub-Inspectors and who have been found intelligent and fit for this work.

3. There are now 28 Sub-Inspectors, 10 having been gradually reduced from 38—the original number.

4. The Malaria Office was removed from Fort on 31st May 1915 to the Sanitary Institute Building, Princess Street, thus causing a saving of Rs. 100 per mensem rent.

5. The routine of the work was the same as in the preceding years.

6. *Municipal Tanks.*—

(*a*) *The Mustan Tank* in 2nd Nagpada was completely filled in.

(*b*) *Nawab's Tank.*—The filling in is being gradually done by the Executive Engineer's Department with road debris.

(*c*) *Nakhoda Tank.*—No further progress was made during the year.

7. *Private Tanks*—and low-lying plots of ground.

(*a*) *The Mint Tank.*—It is still under fish trial.

(*b*) *The Vithoba Tank* in Vithalwady was covered over at Municipal expense on the same plan as the Gamdevie Tank, the cover being of concrete with 2 wire-gauze frames on the top and one step door of wire gauze.

(*c*) *The Bhuleshwar Tank.*—Legal notices were served on the owners of the Tank to carry out certain requirements, and as these requirements have not been complied with, further steps are being taken to carry out the damands departmentally through the Executive Engineer, the cost to be subsequently recovered from the owners.

(*d*) *Bhagirthi Tank* of the Bhatias in Dadyset Agiary Street. Legal notices are being served as the owner has failed to do anything in spite of a very long time given for compliance.

(*e*) *Mahaluxmi Temple Tank* is under fish trial.

(*f*) *The Tank in the Gold Mohor Castle Compound, Byculla.*—The owner has been permitted at his request to fill in the greater portion of the Tank leaving a small well-like arrangement where there are natural springs, and to cover this well hermetically with concrete and a hand-pump fixed.

(*g*) *Surya Kund, Mazagaon.*—This is still under fish trial, but larvæ are still found off and on.

(*h*) *The tank in Old Government House Compound, Parel.*—It is still under correspondence.

(*i*) *Pit at Arthur Road* belonging to Government and leased to one Mr. Ramachandra Balaram. It is being gradually filled in.

(*j*) *Other pits at Arthur Road* are also under action, and the filling in will be completed before the next official year.

(*k*) Extensive low-lying plots of ground at Foras Road belonging to Raja Bahadur Shivlal Motilal.

(*l*) Other low-lying plots behind the Maratha Hospital belonging to the late Mr. Bomanji Dinsha Petit Trust Settlement. These are under action and an undertaking has been given by both to completely fill them in before the next monsoon.

(*m*) *Old Mahomedan Burial Ground in Grant Road.*—The ground here is very low-lying and is a breeding place for Anopheles. The Managers of the Cemetery expressed their inability to fill in this ground on account of the prohibitive cost and enquiries are being made by the Municipal Commissioner of the Collector, whether the eastern and western portions of the Cemetery, where there are no graves can be sold and the amount, realized be utilised towards complying with the Municipal demands.

c

8. *Private Wells.*—The following table shows the work carried out by the Executive Engineer last year in connection with private wells and tanks out of the Government Grant.

List of wells, etc., which have been either filled in or provided with covers together with the cost incurred thereon during the year 1915.

Situation of well.	Nature of work carried out.	Cost.	Remarks.
		Rs. a. p.	
58, Banganga	Covered over with concrete leaving a wire-gauze trapdoor	139 3 11	
2, Khaterali Lane	Hermetically covered over with concrete...	50 5 0	
12-13, Karelwadi	Do. do. ...	10 2 8	
48-50, 2nd Fanaswadi ...	Covered over with concrete leaving a wire gauze trap-door	34 3 5	
80-84, Bazar Gate Street ...	Hermetically covered over with concrete...	2 8 4	Excluding Rs. 3-10-9 recovered from the owner.
12, Nanabhoy Lane... ...	Covered over with concrete leaving a wire-gauze trap-door	5 3 5	Excluding Rs. 8-14-0 recovered from the owner.
326, Bohra Bazar Street ...	Hermetically covered over with concrete...	13 10 3	
471-473, Falkland Road ...	Covered over with concrete leaving a wire-gauze trap-door	25 15 7	
20, 3rd Marine Street ...	Hermetically covered over with concrete...	16 5 4	
Shankerset's Temple at Tardeo Road.	Filled in	763 13 9	
6, 1st Marine Cross Lane ...	Do.	6 6 4	
49, Popatwadi	Do.	1 10 7	
67-69, Charni Road	Hermetically covered over with concrete...	542 9 11	
15, Burrows Lane	Filled in	151 10 9	
Mangalwady (Kutchi Memon Cemetery).	Do.	14 12 8	
5, 2nd Pinjrapole Street ...	Hermetically covered over with concrete...	14 4 7	Excluding Rs. 18-14-5 recovered from the owner.
1-2, Vanka Moholla... ...	Covered over with concrete leaving a wire-gauze trap-door	15 10 1	Excluding Rs 35-14-0 recovered from the owner.
526-534, Girgaum Road ...	Do. do. ...	14 8 10	Excluding Rs. 21-12-7 recovered from the owner.
2-3, Sonapur Street 1st Cross Lane.	Hermetically covered over with concrete...	7 8 9	Excluding Rs. 12 0 0 recovered from the owner.
11, 2nd Khatterali Lane ...	Covered over with concrete leaving a wire-gauze trap-door	38 14 6	
11, Ardeshir Dady Cross Lane.	Do. do. ...	24 6 2	
65, Cawasji Patel Street ...	Do. do. ...	5 9 4	Excluding Rs. 12 recovered from the owner.
8, Santoke Lane	Do. do. ...	330 13 4	
63, 1st Marine Street ...	Do. do. ...	21 9 7	
165-67, Bora Bazar Street...	Hermetically covered over with concrete	8 13 6	

c

Situation of well.	Nature of work carried out.	Cost.	Remarks.
		Rs. a. p.	
Mangalwady (Kutchi Memon Cemetery).	Hermetically covered over with concrete ..	21 1 8	
117-19, Girgaum Road ...	Covered over with concrete leaving a wire-gauze trap-door	78 4 6	
28, Gola Lane	Do. do. ...	15 7 4	
29, Pitha Street	Do. do. ...	18 1 11	
85-87, Bazar Gate Street ...	Do. do. ...	6 5 3	Excluding Rs. 11-3-7 recovered from the owner.
404-408, Girgaum Road ...	Do. do. ...	582 8 6	
48, 2nd Carpenter Street ...	Hermetically covered over with concrete...	71 7 11	
14-16-18, Police Court Lane.	Covered over with concrete leaving a wire-gauze trap-door	84 12 0	
20-22, Newwadi	Do. do. ...	7 3 1	Excluding Rs. 16-8-0 recovered from the owner.
13, Ropa Lane	Hermetically covered over with concrete ...	16 8 3	Excluding Rs 24-5-9 recovered from the owner.
410, Girgaum Road	Filled in	753 8 1	
70-72, Cawasji Patel Street.	Covered over with concrete leaving a wire-gauze trap-door	17 5 2	
13, Benham Hall Lane ...	Do. do. ...	46 0 4	
8-10, Goa Street	Do. do. ...	6 14 11	Excluding Rs. 9-13-6 recovered from the owner
Mangalwady (Kutchi Memon Cemetery).	Do. do. ...	357 12 9	
57, Cavel Street	Do. do. ...	33 9 7	
18, Borebhat Lane	Do. do. ...	30 14 2	
102, Sonapur Street... ...	Hermetically covered over with concrete...	8 4 10	
303, Hornby Road	Covered over with concrete leaving a wire-gauze trap-door	14 6 7	
13-15, Mody Street	Do. do. ...	39 12 0	
42, Bomanji Lane	Do. do. ...	14 14 0	
19, 2nd Agiary Cross Lane.	Do. do. ...	13 8 5	
39, 2nd Fanaswady	Do. do. ...	27 7 7	
12, Dhuswady	Do. do. ...	25 6 6	
110-12, Sonapur Lane ...	Do. do. ...	36 7 8	
114, Sonapur Lane	Do. do. ...	18 10 7	
197, Kumbharwada	Hermetically covered over with concrete...	21 6 9	
2, Charni Road	Covered over with concrete leaving a wire-gauze trap-door	17 12 7	
Gaumdevi Tank	Covered over with concrete with a step-door	1,322 11 0	
57, Newwady	Covered over with concrete leaving a wire-gauze trap-door	106 5 2	
24-28, Ghorupdeo Road ...	Do. do. ...	428 7 10	
16, Thakurdwar Road ...	Do. do. ...	228 4 0	
2, Mazagaon Road	Hermetically covered over with concrete...	277 13 0	
3, Ghogha Street	Do. do. ...	9 3 0	
96, Dadyset Agiary Lane ...	Do. do. ...	7 8 8	
2-3 and 4-5, Bhasker Lane ...	Covered over with concrete leaving a wire-gauze trap-door	148 2 10	
29, Anantwadi	Do. do. ...	132 8 2	

Situation of well.	Nature of work carried out.	Cost.	Remarks.
		Rs. a. p.	
38, Ghogha Street	Covered over with concrete leaving a wire-gauze trap-door	21 15 1	
10, 2nd Khetwadi Lane ...	Do. do. ...	30 14 2	
248-250, Lohar Street ...	Hermetically covered over with concrete...	83 10 9	
90-92-94, Maruti Lane ...	Covered over with concrete leaving a wire-gauze trap-door	25 14 8	
32-34, Newwadi	Do. do. ...	45 11 2	
2, Baboolnath Road	Do. do. ...	36 10 5	
90, D'Lima Street	Hermetically covered over with concrete...	293 12 0	
41, 2nd Fanaswady Lane ...	Covered over with concrete leaving a wire-gauze trap-door	17 10 6	
70-80, Bhoiwada Lane ...	Do. do. ...	3 10 1	Excluding Rs. 14-7-0 recovered from the owner.
27, Benham Hall Lane ...	Do. do. ...	12 8 0	Excluding Rs. 13-15-8 recovered from the owner.
22-26, Ghoga Street	Do. do. ...	16 1 2	Excluding Rs. 18-9-2 recovered from the owner.
9, Borebhat Lane	Do. do. ...	8 11 1	Excluding Rs. 15-13-1 recovered from the owner.
28, Ardeshir Dady Street ...	Do. do. ...	26 5 8	
312, Princess Street... ...	Hermetically covered over with concrete ..	13 14 7	
54-56, Gola Lane	Do. do. ...	16 14 5	
66, Sonapur Street	Covered over with concrete leaving a wire-gauze trap-door	4 6 1	Excluding Rs. 12-2-3 recovered from the owner.
27-29, Gola Lane	Do. do. ...	2 15 5	Excluding Rs. 16-4-4 recovered from the owner.
32-34, Police Court Lane ...	Do. do. ...	20 12 1	
264, Girgaum Road	Do. do. ...	108 8 2	
8-15, Parel Road	Hermetically covered over with concrete...	372 2 1	
4, Kumbhar Lane	Covered over with concrete leaving a wire-gauze trap-door	40 1 7	
17-23, Mody Street	Do. do. ...	15 11 8	Excluding Rs. 20-6-8 recovered from the owner.
5, (9) Cowasji Patel Tank Road.	Do. do. ...	195 11 6	Excluding Rs. 305-8-0 recovered from the owner.
2, 4 and 6, 1st Pinjrapole Street.	Do. 4 trap-doors...	474 6 3	
3-5-7, Jijibhoy Dadabhoy Lane.	Do. 1 trap-door ...	19 9 9	
11, 2nd Sonapur Cross Lane.	Hermetically covered over with concrete...	8 4 10	
55-57-59, Pinjrapole Street..	Do. do. ...	18 1 10	Excluding Rs. 30-14-0 recovered from the owner.
27-31, 3rd Agiary Cross Lane.	Covered over with concrete leaving a wire-gauze trap-door	13 8 5	
260, Girgaum Back Road...	Do. do. ...	949 5 2	
57, Banganga...	Do. do. ...	116 3 6	
87-105, Ghorupdeo Road ...	Hermetically covered over with concrete .	523 9 8	
17-21, Bhoiwar Lane ...	Do. do. ...	7 14 7	
77, Parsi Bazar Street (½ well.)	Do. do. ...	25 0 8	
628, Duncan Road	Filled in	33 15 0	
677, Tardeo Road	Do.	70 14 11	
318, Bora Bazar Street ...	Covered over with concrete leaving a wire-gauze trap-door	10 8 6	Excluding Rs. 26-0-0 recovered from the owner.
219-221, Girgaum Back Road.	Do. do. ...	48 4 8	

Situation of well.	Nature of work carried out.	Cost.	Remarks.
		Rs. a. p.	
41-43, Ghoga Street... ...	Covered over with concrete leaving a wire-gauze trap-door	34 3 8	
6, Kumbhar Lane	Hermetically covered over with concrete...	19 11 10	
7, Anantwady	Covered over with concrete leaving a wire-gauze trap-door	34 9 3	
25-27-29, Newwadi	Do. do. ...	34 9 5	
1, Ropa Lane	Do. do. ...	30 0 0	
7-9, Khetwadi 9th Lane ...	Do. do. ...	29 4 10	
8, Islampura...	Do. do. ...	59 14 10	
77, Khetwadi Main Road ...	Do. do. ...	15 14 5	
76 (4), Girgaum Back Road.	Do. do. ...	118 15 5	
10A-11, Breach Candy Road.	Do. do. ...	50 2 8	
75, Harvey Road	Hermetically covered over with concrete..	154 11 11	
38, Nesbit Road	Do. do. ...	216 2 6	
2-8, Vithoba Lane (tank)...	Covered over with concrete with a step-door.	629 7 6	
2-2A, Gowalia Tank Road ...	Covered over with concrete leaving a wire-gauze trap-door	63 13 8	
133, North Brook Street ...	Do. do. ...	39 13 8	
26A, Khetwadi 8th Lane ...	Do, do. ...	24 6 0	
3, Fanaswadi Cross Lane ...	Do. do. ...	18 2 6	
112, Khetwadi Main Road...	Do. do. ...	237 3 8	
174-76, Modi Street... ...	Covered over with teakwood plank ...	14 15 7	
43, Warden Road	Covered over with concrete leaving 2 wire-gauze trap-doors	206 4 0	
87-105, Pakmodia Street ...	Do. 1 trap-door ...	39 7 4	
3B, Connaught Road ...	Do. do. ...	31 14 5	
3-15, Parsi Panchayat Lane.	Hermetically covered over with concrete...	9 11 10	Excluding Rs. 16-4-5 recovered from the owner.
46, Cowasji Patel Street ...	Do. do. ...	5 11 11	Excluding Rs. 10-12-3 recovered from the owner.
86, Do.	Do. do. ...	11 5 6	Excluding Rs. 12-9-7 recovered from the owner.
116-120, Cowasji Patel Street	Covered over with concrete leaving a wire-gauze trap-door	11 6 7	Excluding Rs. 13-0-0 recovered from the owner.
197, Kumbharwada Street..	Provided a handpump	49 3 1	
260, Girgaum Back Road ...	Do.	45 2 8	
110-12, Sonapur Street ...	Do.	48 13 3	
24-26, Mahadeo Shankerset Lane.	Hermetically covered over with concrete...	13 4 5	
10, Sonapur Street	Covered over with concrete leaving a wire-gauze trap-door	669 3 8	
1380-81, Parel Village ...	Do. do. ...	165 5 10	
Nepean Sea Road, Malabar Hill.	Filled in	950 3 8	Excluding Rs. 600 recovered from the owner.
777, Girgaum Road... ...	Covered over with concrete leaving a wire-gauze trap-door	365 12 6	
29, Ardeshir Dady Street ...	Hermetically covered over with concrete.	28 4 8	
312, Princess Street ...	A handpump fixed	23 12 8	
21, 1st Carpenter Street ...	Do.	49 13 10	
6, Kumbhar Lane	Do.	48 14 0	

10. *Government Grant.*—Under their Resolution No. 1712 of 26th February 1915, (General Department), Government were pleased to place at the disposal of the Municipal Commissioner, a further sum of Rs. 20,000 for anti-malarial measures in the City.

As it was found expedient to extend the Malaria operations further North, the sanction of Government was asked for to assistance being given, when the poverty of the owners justified it, in the case of wells in F and G wards as in other parts of the City. The sanction was accorded under Resolution No. 5869 of 27th July 1915 (General Department).

11. The following further Municipal wells were filled in or covered during the year :—

Locality.	Whether Well or Tank.	Nature of work carried out.
452-454, Abdul Rehman Street	Well	Covered over with stone slabs flush with the ground leaving a small opening with a cast-iron cover.
4, Dockyard Road	Well	Filled in.
13, Mount Road	2 Wells... ...	One filled in and the work of filling in the other is almost completed.
Kabir Temple, Gilder Street	Well	Hermetically covered over with concrete and a hand-pump fixed.

12. *Spot Maps* are maintained showing the permanent breeding places in various sections and I attach herewith that for Fort North and South and part of Esplanade.

13. The red colour in the map indicates the wells and tanks protected. Black hatched shows those either under fish trial or under correspondence and simple black circles show those that are not breeding. Thus at a glance we see the progress of the work done in this direction.

14. All cisterns inside private houses either for water-closets or domestic use have now been hermetically covered after prolonged correspondence. The total number thus protected comes to 7,737. Action has to be repeated in several cases as after repairs to the ball valve, &c., the covers are invariably left open and in a non-mosquito-proof condition.

15. *The Road-watering Cisterns* have all been made mosquito-proof and the chain attachment to the outlet valves has been kept under lock and key.

16. One lecture on Malaria was delivered at the Y. M. C. A. Hall, Lamington Road, and a practical demonstration given at an "At Home" of the Sanitary Association.

17. The weekly reports of breeding places were published in full free of charge by the *Times of India* and other papers and our thanks are due to the proprietors of these papers.

18. *Quinine Distribution.*—60,000 Tablets of Quinine Hydrochloride (gr. iv) were purchased in December last, from Government, at the rate of Rs. 3-8-0 per 200 Tablets.

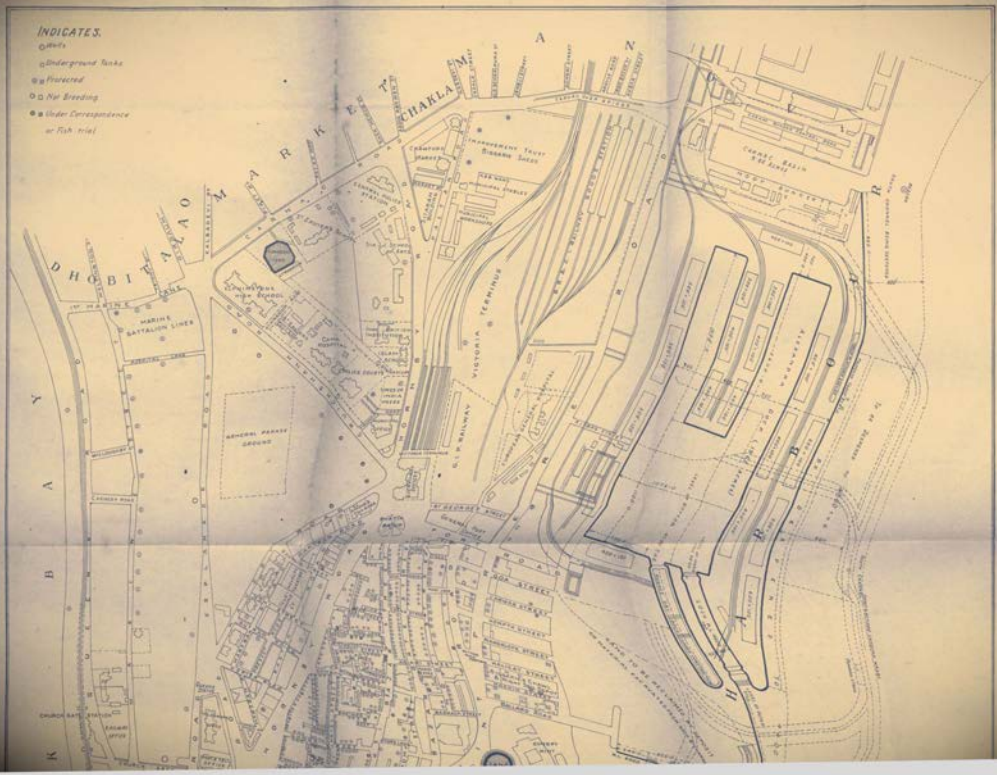
Quinine was distributed as before to all Charitable Institutions, by house to house visits, and through the District Registrars.

19. *St. George's Hospital.*—The following orders were issued by Government in connection with the proposed experiment of a mosquito-proofing ward :—

No. 4726.

GENERAL DEPARTMENT,
BOMBAY CASTLE, 12th June 1915.

2. The incidence of Malaria has fallen among the patients in St. George's Hospital from 2·8 per cent. in 1913-14 to 1·0 per cent. in 1914-15, and among the nurses from 8·0 per cent. in 1913-14 to 2·8 per cent. in 1914-15. In both cases the incidence is only about ⅓rd of that in 1913-14 and is not abnormally high.


INDICATES.
Offices
Underground Tanks
Protected
Not Breeding
Under Correspondence
or Fish trial
CHARLAM A N
DHOBITALAO MARKET
BAY
HARBOUR
MARINE BATTALION LINES
VICTORIA TERMINUS
G.I.P. RAILWAY
MEMORIAL PARADE GROUND
CHURCH GATE STATION
CUSTOM HOUSE
CUSTOM HOUSE DOCK
PRINCE'S DOCK
VICTORIA DOCK
ALEXANDRA DOCK
KING'S DOCK
QUEEN'S DOCK
PRINCE'S DOCK EXTENSION
CANNING DOCK
CANNING DOCK EXTENSION
COLABA BASIN
SIDINGS
SHEDS
WAREHOUSES
OFFICES
CUSTOM HOUSE
CUSTOM HOUSE DOCK
PRINCE'S DOCK
VICTORIA DOCK
ALEXANDRA DOCK
KING'S DOCK
QUEEN'S DOCK
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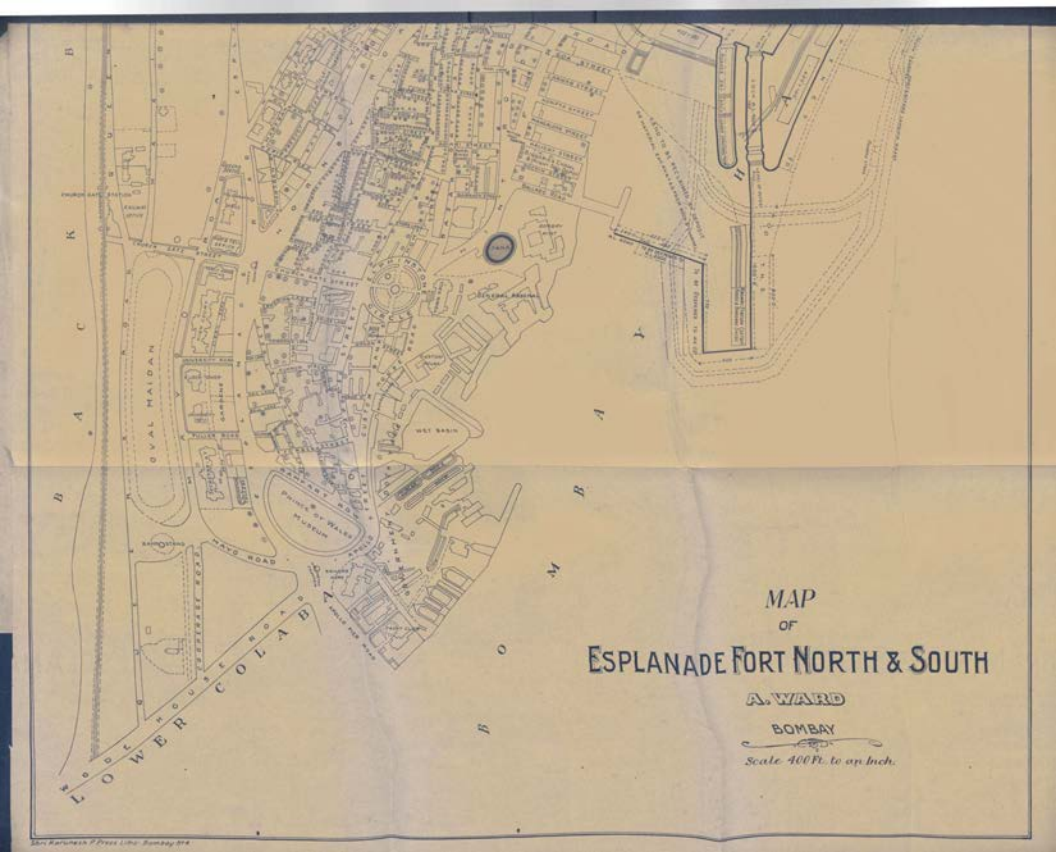
OFFICES



MAP
OF
ESPLANADE FORT NORTH & SOUTH

A. WARD

BOMBAY

Scale 400 Ft. to an Inch.

Sen Karunesh P Press Ltho Bombay 114

3. The decrease is attributable to the anti-malarial measures which have been carried out in the hospital and its immediate neighbourhood, and the Surgeon-General believes that a further decrease may be expected as a result of the further anti-malarial measures which have since been undertaken or are contemplated in the near future by the Health Department of Bombay.

4. Under the circumstances the Surgeon-General thinks that the experiment of mosquito-proofing one of the hospital wards might be deferred as proposed by the Surgeon Superintendent. Further experience may show that it is unnecessary."

ORDER.—In the circumstances stated, the experiment of mosquito-proofing one of the hospital wards should be deferred for a time.

20. *Chemical Analysis of Water.*—During the last year 438 samples of well water were chemically analysed by the Municipal Analyst and out of them 75 were declared fit for potable purposes giving a percentage of 17·12 as fit.

21. The following table shows the result of analysis for the last four years :—

—	1912.	1913	1914.	1915.	Total.
Fit for potable purposes ...	79	85	40	75	279
Unfit for potable purposes ...	389	701	164	163	1,417
Objectionable or suspicious ..	86	117	60	99	362
Fair	11	59	28	101	199
No opinion can be given ...	5	7	...	...	12
Total ...	570	969	292	438	2,269

Out of the total number of 2,269 well waters analysed, 478 have been declared to be fit for potable purposes, the remaining 1,778 being unfit.

22. *Notice Boards* giving intimation to the public that the water is unfit for potable purposes were fixed over 55 wells.

23. Religious and sentimental objections are still being raised by the public and trap-doors are freely allowed by the Municipal Commissioner on the usual conditions, *viz.*, that they should be kept closed under lock and key except when water is being drawn out.

24. Trapdoor concessions are still largely abused and warning letters were addressed to 141 parties during the year.

25. *Sentimental objections.*—In one case in a Theatre the original well was filled in by the owner of his own accord when the building operations were carried out. Subsequently it was represented that Indian Companies objected to take this Theatre on hire on the ground that they could not make any money owing to the well being filled in and they requested that the well may be allowed to be re-opened and hermetically covered up again, so that the "spirit" in the well may have a free play to move in the water. This request was complied with. Subsequently the owner informed me that he is getting a good house and the theatre is much in demand.

26. 14 wells for irrigation purposes were permitted to be covered over with iron sliding trapdoors on pulleys for moats.

27. *Maidan wells.*—There are seven wells in the Maidan opposite the Municipal Offices. Out of these, 3 belong to Government and 4 to the Municipality. The Executive Engineer, Bombay Municipality, and the Executive Engineer, Presidency, have been requested to protect these wells as soon as possible. The Municipal Corporation have already provided a sum of Rs. 3,000 for cleaning their wells and Rs. 10,524 for covering them with concrete. The work could not be taken in hand earlier owing to the high level of the subsoil water in the rainy season.

28. *New wells.*—Under amended Section 381 of the Act, the Municipal Commissioner has been empowered to prohibit the sinking of new wells. Permission is however granted to sink new wells for *building purposes* only on the following conditions: --

(1) The well to be hermetically covered without a trapdoor and water drawn by means of a handpump.

(2) A written undertaking given that the well would be filled in after completion of the building work.

All the Licensed Surveyors have been informed about these orders.

29. *Malabar Hill Reservoirs and Filters.*—The work of rendering each of the filters and reservoirs mosquito-proof has been nearly completed.

30. *Foreshore on Nepean Sea Road.*—The Chairman, City Improvement Trust, proposed that a strip of the foreshore, up to a depth of 150 feet, may be filled in and the reclaimed strip kept as a public garden in order to prevent the breeding of mosquitoes. To this the following reply was sent :—

> "It would suffice if a strip of land 150 feet deep is reclaimed along the frontage to Nepean Sea Road, but it would be safer if we go up to 200 feet. This will do away with all breeding places for mosquitoes as the sea would come up to the new wall at every tide. I would suggest that if the rocks now lying on the foreshore could be removed and used for the reclamation it would deepen the area abutting on the proposed bund wall which would then practically make the water too deep to allow of breeding of mosquitoes."

31. *Inspection of Country Craft for Stegomyia.*—On the subject of preventive measures in connection with the Stegomyia mosquitoes and the introduction of Yellow Fever, the Secretary, Bombay Port Trust, forwarded a report from the Port Trust Administrative Medical Officer, dated 7th April 1915, from which the following is an extract :—

"As regards the remote chances of Yellow Fever being introduced to India no action taken at present by the Port Trust would have much effect for the following reasons :—

I. (*a*) The Stegomyia mosquito is prevalent all round the coasts of India, and as far as I have seen extends up all the rivers I have seen, Ganges, Bramhaputra, Bhima and Narbudha, etc.

(*b*) These mosquitoes are bred in thousands in almost all river-steamers and country boats, also in the stumps of bamboos.

(*c*) Assuming we kill all the Stegomyia mosquitoes in Bombay, these insects breed so rapidly in this climate that I calculate a single impregnated female could, in her successive generations, produce in a single year about 250,000,000,000 (a quarter of a million million) insects.

(*d*) A single barge may—indeed as a rule does—bring in several thousand larvæ to the harbour.

(*e*) Yellow Fever would spread from Panama and arise first in China or Malaya before reaching Bombay.

(*f*) We would in that case have ample warning to attempt to set things in order. Any tinkering at the present time would have little effect on the remote possibilities of an epidemic.

II. Apart from its action as a Yellow Fever carrier, the Stegomyia mosquito is probably the most annoying and persistent biter in Bombay. The bites are to me personally more irritating than those of any other mosquito.

They also bite very frequently during the day time, whereas few of our other local mosquitoes bite before sunset.

Consequently they interfere more with sleep and work and it would be an excellent thing if we could exterminate them or even diminish their numbers.

The isolated action of the Trust is very inefficacious, but I and all the staff will cordially welcome the assistance of the Municipality and willingly co-operate with them in any measure likely to cope with the pest, First among these is the co-operation, failing this, the compulsion on the boat-owners.

Next is similar measure with our land neighbours.

The Municipal Commissioner replied (No. 5053 of 11-5-1915) as I understand from the report of the Port Trust Medical Officer that the Port Trust are not likely to take any action in the matter, and as the prevalence of mosquitoes which breed in boats and country crafts is a matter which affects persons working in Port Trust limits, rather than the general public, I do not propose to take any action."

32. *Old House in Chinch Bunder Road.*—There are about 17 houses in Chinch Bunder Road, B ward, which are not connected to the drains and the sullage runs into the storm-water drain at the back, in the railway premises, creating a serious mosquito nuisance. The City Improvement Trust who are the owners of these premises reply that they cannot get levels to the existing drain and that these houses are to be shortly pulled down. The Municipal Commissioner has now written to the Trust authorities that if these houses are not demolished within four months or connected to the drains, necessary action to declare the buildings " U.H.H." will be taken.

33. *Military Bungalows in Marine Lines.*—The 3 garden masonry tanks, which were always found breeding, were filled in above the ground level and no water is allowed to collect therein.

34. *Fire buckets.*—Fire buckets in several Mill premises were found breeding larvæ of mosquitoes in large numbers and creating a serious nuisance. The Managers of almost all Mills in the City were therefore requested to give strict orders about changing the water in the buckets every 4 or 5 days and to place therein a teaspoonful either of Izal or pesterine each time the water is changed.

35. *30 Mosquito-traps* were made to order, and they are being used wherever complaints are made about mosquitoes, so as to ascertain the source and the variety of the mosquitoes breeding in the locality.

36. *Livery Stables.*—In all livery stables, casks full of water are kept for watering horses without any covers. A clause has therefore been arranged to be introduced in the License Form of these stables, requiring the owner to "see that all the tubs, casks and tanks kept on the premises for storing water are properly covered over with mosquito-proof covers and provided with taps."

37. *Broken Glass bottles on Boundary walls.*—The Executive Engineer, City Improvement Trust, and the Port Trust were addressed as follows re: broken bottles on boundary walls:—

> "I have the honour to inform you that in many Trust buildings the boundary walls are fitted with broken glass bottles as protection against thieves and others. These small receptacles act as breeding places for stegomyia and other mosquitoes during the monsoon.
>
> "In connection with this matter I forward herewith a copy of report No. 10441 of the 26th instant, from the Executive Engineer, Municipality, for your information and would request that such glass walls should be prohibited in future to prevent the mosquito nuisance they are giving rise to.
>
> "It is generally found that compound walls are particularly required in cases of the buildings on the City Improvement Trust plots where certain external open areas left in pursuance of the City Improvement Trust regulations have to be bounded off from the neighbouring properties.
>
> "It would therefore be desirable to draw the attention of the Trust to the mosquito nuisance arising from such walls being capped with broken glass, etc., and to request that Body to make it one of the conditions of their lease that no compound walls shall be provided with broken glass or similar material likely to facilitate the breeding of mosquitoes and prove a danger to public health. Such walls in other areas however seem to be chiefly confined to Government properties. The Presidency Executive Engineer might also be notified. I would beg to refer you to Section 381 (1) *b* of the Act where the power already is conferred for the removal of receptacles for water whether within or outside a building."

38. *Antiformicas, Flower vases, &c.*—Most of the complaints about mosquito nuisance in the dry season were due to antiformicas and flower vases breeding larvæ of stegomyia and culex. As these being inside rooms, the following postcards were printed for distribution:—

> "Complaints are frequently made about mosquito nuisance in certain premises and on enquiry by the Malaria staff, the nuisance is found to be chiefly due to "antiformicas," flower pots, tinpots and receptacles inside houses and servants'

quarters breeding mosquitoes. In order to facilitate Malaria work and to attend to any complaints it is requested that residents will kindly allow inspections of these places inside houses. It is further requested that mosquito-traps may be allowed to be placed in bed rooms and other places so that it may be possible to identify the species of mosquitoes and to trace the source from which the mosquitoes come."

39. *Gully traps.*—The Municipal Commissioner in his No. 2054 of 22nd April 1915, reported to the Corporation that as it has been found that gully-traps are common breeding places of culex and stegomyia it is necessary to protect them by requiring tight fitting covers which will prevent their acting as breeding places for mosquitoes. In the drainage rules approved under Corporation Resolution No. 6647 of 13th February 1913, there is no precise provision for the enforcement of tightfitting covers over gully-traps. I, therefore, consider that the following rule should be added to the existing drainage rules :—

"All gully-traps when directed by the Deputy Executive Engineer, Drainage, shall be covered with a hinged iron cover and a frame of approved design."

If the proposed rule is approved by the Corporation, it will be possible to take the necessary action in the matter. In the beginning it is intended to confine action only to new buildings, it being gradually extended to old houses.

This was approved of by the Corporation under their Resolution No. 880 of 6th May 1915.

40. The following orders were issued by the Executive Health Officer to the staff in connection with the provision of covers over open channel drains :—

(1) The Deputy Health Officers should take action in case of existing houses :

(*a*) to enforce covers over gully-traps *on closed system* if they are found breeding larvæ of mosquitoes or in any other respect a nuisance ;

(*b*) *in case of long open channel drains* two written warnings should be given to the owner by the Deputy Health Officers in cases where these are found frequently choked or breeding mosquitoes. If the nuisance persists, action should be taken to enforce proper covers on hinges.

(2) All open channel drains should be attended to by the Conservancy staff.

(3) In all plan applications received for new buildings or alterations and additions in existing houses, a remark to the following effect should be made :—

"All gully traps and open channel drains should be provided with tightfitted mosquito-proof covers made of wrought iron plates on hinges."

41. The Deputy Health Officers were requested to have the following clauses inserted in the plan memoranda :—

(*a*) "all cisterns shall be properly covered with a close fitting dust-tight lid fitted with an approved lock and key easily accessible and their warning pipes protected with wire gauze;"

(*b*) "no broken bottles should be fixed over boundary walls;"

(*c*) "no new well, tank, pond, cistern or fountain should be dug or constructed without the previous permission in writing of the Municipal Commissioner as required in Section 381 A of the Municipal Act;

(*d*) "all gully-traps and open channel drains should be provided with tightfitting mosquito-proof covers made of wrought iron plates on hinges."

42. *Storm-water entrances.*—In July last (Resolution No. 2600) the Corporation invited the attention of the Municipal Commissioner to the fact that mosquitoes and their larvæ have been found in gully traps and street water entrances in the City by the Malaria Department, and requested him to obtain a systematic and regular inspection of them and to submit to the Corporation quarterly reports thereabout, if feasible.

To this the Municipal Commissioner replied by forwarding a copy of the Executive Health Officer's report No. 15666 of 12th instant, and added :—

"The storm water entrances cannot be kept closed during the monsoons, and they are sufficiently looked after. Gully traps are, as the Executive Health Officer states, regularly plunged and pesterined. Although the mosquito which breeds in them is culex or stegomyia, not anopheles, it is desirable that mosquito breeding of every sort should be checked as far as possible. This is being done by the regular cleaning of the gully traps. A quarterly report on the subject would not be of any value. A little practical inspection is better than a multitude of reports."

Letter No. 15666/12-8-1915 from the Executive Health Officer to Commissioner :—

"With reference to your No. 16499 of 6th August 1915 *re:* Corporation Resolution No. 2600 of 26th July 1915, I have the honour to state that storm-water entrances remain open only during the four months of the monsoon. There are no chances of their breeding if the rain is heavy and constant, but if long breaks in the monsoon occur, there is every probability of mosquitoes breeding. During the period of long breaks, these entrances are pesterined both by the Health and the Malaria Departments. By October all such entrances are closed, some by concrete blocks, and others by wrought iron plates, by the Drainage Department and re-opened again in May. Thus during the eight months, these entrances do not form breeding places. As regards gully traps, they may prove breeding places, if they are not regularly cleaned and flushed. They are, however, regularly plunged and if necessary, pesterined, so that the chance of the mosquitoes arriving at maturity is not great. Strict instructions are given about gully traps. To make inspection and reports quarterly on gully traps of the city would entail an enormous amount of physical and clerical labour, which is not possible or necessary, nor of any value."

This report was approved of by the Corporation and recorded (Resolution No. 4298 of 7-10-1915).

43. *Victoria Gardens.*—The Executive Engineer estimated that the total cost of carrying out all the Malaria measures would amount to Rs. 1,04,413 as shown below :—

(1)	Providing drainage arrangements	Rs. 40,735
(2)	„ storage tanks	„ 21,426
(3)	Filling in the existing ponds and making cement concrete bottoms of aquatic birds, cages, etc.	„ 34,214
(4)	Providing a 3" centrifugal pump with all connections complete	„ 6,781
(5)	Providing a cover over the well as per the estimate forwarded with this office No. 16485 of the 18th February 1914	„ 1,257
		„ 1,04,413

After further inspection and consideration, the Municipal Commissioner passed the following orders :—

"I think it would be desirable to fill up a considerable proportion of the present ponds in the gardens for several reasons :—

Firstly, it would undoubtedly reduce the area for mosquito breeding.

Secondly, there is too much water space to be properly supplied with fresh water, and the water becomes green and unpleasant.

Thirdly, it would give more space for grass and animals. I think, therefore, that the area proposed for filling in may be approved, and the remainder cemented.

Doubtless some drainage work will then be necessary.

The filling in cementing and draining are estimated to cost about Rs. 75,000, and I think it would be best to provide Rs. 20,000 a year for four years, the work of filling and draining to be done concurrently, and then the cementing.

The well should be covered and pump provided as proposed. I don't think the storage cisterns need be replaced till the other work is done."

No further progress has been made.

44. *Fish trial.*—Demands for fish were very few owing to a large number of wells having been protected.

The Secretary to Government of Bombay sent to us in September last, copies of notes by the Deputy Director of Fisheries, Bengal, summarising his observations on the relation of mosquito larvæ to young catla fish; and

The following report was submitted to the Municipal Commissioner:—

"Catla fish are local to Bengal, and cannot be obtained anywhere on this side of the island.

In Bombay we have been trying two varieties of fish, *viz.*, Khajura and Piku, of which the latter is more efficacious than the former. It is our experience that for some time fish are effective, but later on larvæ continue to appear. In connection with fish trial, I attach herewith a copy of report sent to the Special Assistant to Health Officer, Malaria, by Major Liston sometime back, when experiments were made by him in wells.

In para. 3 (c) he recommends fish trial where *more rational methods are not practicable for one or more reasons.*

Dr. Bentley, in para. 193 of his report, says that fish can only be effective under the following conditions:—

(1) The No. of fish employed must be sufficient for the task and proportionate to the amount of water to be protected.

(2) The water must be kept free from weed, leaves, flowers and floating matter which might afford cover to mosquito larvæ.

He further says that fish cannot be employed in wells which are too foul or stagnant to allow of there being a sufficient supply of Oxygen for them.

Most of our wells contain water organically polluted.

In cases of wells in Hindoo Temples, Mosques, Parsee Fire Temples, we allow full fish trial before taking any stronger measures."

Letter No. 345 of 1st February 1915 from the Director, Bombay Bacteriological Laboratory, Parel, to the Special Assistant to Health Officer, Malaria:—

"With reference to your No. 26707 of 19th ultimo, I have the honour to report that mosquito larvæ of various sizes Anopheles rossi, A. stephensi and Culex fatigans as well as Ephemera larvæ are fairly numerously present in the large well to the west of Mr. Adenwalla's bungalow.

2. In this connection I have to remark that the fish (6 doz.) were introduced into the well some months ago. Since then it would appear that some of the fish have died or have been removed from the well either by birds or by the working of the Persian Wheel, so that now only a very few remain, a number in fact quite insufficient to keep down the mosquito larvæ in so large a well which as you know has a diameter of 30 feet.

3. I am of opinion that mosquito larvæ may be found in collections of water where:—

(a) the number of fish originally introduced was small in proportion to the area to be kept free of larvæ;

(b) although numerous enough when first introduced the number of fish may be reduced by deaths among them either from disease or on account of destruction by enemies such as birds, frogs, etc., so that the number remaining alive some weeks or months after they were placed in the well may be insufficient to keep down the larvæ;

(c) although the number of fish may be large enough, very young larvæ may continue to be found. These small larvæ (often scarcely an eighth of an inch long) may not be detected by the fish; they seldom however reach the pupal stage. I do not think the finding of small larvæ of the size I mention would be sufficient to condemn the practice of using fish to destroy mosquito larvæ where more radical methods are not practicable for one or more reasons; and

(*d*) even although fully developed larvæ are found in a well or tank there can be no doubt that, if the number of such larvæ is very small and especially if only a very few pupæ are found the use of fish to keep down mosquitoes ought not to be condemned. Malaria can only be spread when the number of suitable mosquitoes is considerable. The chance that a mosquito should suck the blood of an infected person in a suitable stage of development of the disease, that the mosquito should live for fourteen days before the disease in the mosquito has reached the stage that it can be communicated to man and that it should then bite a susceptible person is a very remote one and many mosquitoes must be present in a place before success can be assured. The reduction in the number of mosquitoes in a place is sufficint to insure the prevention of the spread of Malaria, their absolute extermination is probably neither practicable nor advisable."

45. *Quarrying operations in the City.*—In order to more efficiently control the quarrying operations, the Municipal Commissioner issued orders that no quarrying work should be carried out below the road level.

46. *Spleen Examination.*—House to House inspection of children for enlarged spleen was continued during the year. The following Table shows the result of Spleen Census by Wards and Sections:—

	Section.	Total No. of children examined.	No. found with enlarged spleen.	Percentage by Sections.	Percentage by Wards.
A	Colaba ...	413	14	3·38	
	Fort South	69	3	4·34	
	Fort North	402	41	10.19	6·95
	Esplanade	598	45	7·52	
	Total ...	1,482	103	6·95	
B	Mandvi ...	155	6	3·87	
	Chukla ...	177	8	4·51	
	Umarkhadi	107	1	·93	3·45
	Dongri ...	142	3	2·11	
	Market ...	200	9	4·5	
	Total ...	781	27	3·45	
C	Dhobi Talao	603	23	3·81	
	Fanaswadi	374	11	2·94	
	Bhuleshwar	185	1	·54	2·91
	Kumbharwada ...	196	5	2·55	
	Khara Talao	290	8	2·75	
	Total ...	1,648	48	2·91	
D	Chowpati	384	11	2·86	
	Khetwady	558	14	2·5	
	Girgaum...	447	14	3·13	2·81
	Mahalakshmi	174	5	2·87	
	Total ...	1,563	44	2·81	
E	Mazagon	580	24	4·13	
	Tarwadi	912	67	7·33	
	Byculla ...	415	11	2·65	
	2nd Nagpada	93	5	5·37	
	1st Nagpada	130	6	4·61	5·26
	Tardeo ...	103	6	5·82	
	Kamatipura	101	4	3·96	
	Total ...	2,334	123	5·26	
F	Sion	611	4	·65	
	Sewri	372	10	2·68	1·27
	Parel	1,287	15	1·16	
	Total ...	2,270	29	1·27	
G	Worli ...	3,284	11	·33	
	Mahim ...	703	1	·14	
	Total ...	3,987	12	·3	
	Grand Total ...	14,065	386	2·74	2·74

47. From this it will be seen that no section shows spleen rate higher than 10 per cent.

(In case of a healthy area, the average spleen rate amongst children is not above 10 per cent.)

48. Fort North, Esplanade and Tarwadi are the only sections where the spleen rates are respectively 10·19, 7·52 and 7·33 per cent.

49. The Spleen rates in Fort North and Esplanade in the previous years were as follows :—

Sections.	1909.	1910.	1912.	1913.	1914.	1915.
Fort North ...	49·44	.....	40·48	15·27	11·89	10·19
Esplanade ...	73·38	48·4	27·37	15·63	19·67	7·52

Thus there is a considerable improvement in these 2 sections which were highly infected in the previous years.

50. Tarwadi also shows a higher spleen rate than other sections, and the mortality figure there is also high. This is due to the fact that the section is low-lying, (2) contains many plots of ground which are low-lying and collect water in the rains, (3) is verys close to the Bhandarwada Reservoir, where the filters breed larvæ of Neocellia stephensi, (4) contains two orphanages and other Native Christian Schools, and (5) there are many plots under cultivation with very big wells.

51. The following Table shows the spleen rates by Wards for the last four years as compared with the year 1910:—

Ward.	1910.	1912.	1913.	1914.	1915.
A	29·9	33·50	16·87	12·32	6·95
B	13·0	15·03	8·18	6·31	3·45
C	5·9	9·99	4·89	5·50	2·91
D	2·7	3·90	3·41	5·77	2·81
E	1·8	11·40	4·96	4·56	5·26

Thus A ward shows gradual reduction in the spleen rate.

52. The spleen rate for the whole City was 2·74 against 6·75 in 1914 and 5·87 in 1913.

53. The following Table shows the spleen rate by castes.

Castes.	No. of children examined.	No. with enlarged spleen.	Percentage
Hindus	12,032	305	2·53
Mahomedans	1,260	34	2·69
Parsees	285	22	7·71
Christians	371	21	5·66
Jews	117	4	3·41
Total ...	14,065	386	2·74

54. The spleen rate for Parsees in A Ward and in the whole City was respectively 10·65 and 7·71.

55. The following Table shows spleen rate by Castes for 1915, as compared with the preceding four years.

Castes.	1910.	1912.	1913.	1914.	1915.
Hindus	16·5	10·55	4·71	6·59	2·53
Mahomedans	20·5	4·88	5·75	5·40	2·69
Parsees	24·7	19·96	9·15	9·55	7·71
Christians	13·3	8·26	9·97	8·47	5·66
Jews	...	6·96	6·47	6·34	3·41

56. The District Registrars examined the children attending their dispensaries for spleen and the following Table gives results of those enquiries by wards.

Ward.	No. of children examined.	No. with enlarged spleen.	Percentage.
A	325	54	16·61
B	1,866	115	6·16
C	4,030	476	11·81
D	4,600	34	0·73
E	4,241	660	15·56
F	823	40	4·86
G	1,846	24	1·30
Total ...	17,731	1,403	7·91

57. The following Table shows by castes the result of the Spleen Census taken by the District Registrars :—

Castes.	No. of children examined.	No. with enlarged spleen.	Percentage.
Hindus	11,567	558	4·73
Mahomedans	4,226	646	15·28
Parsees	794	83	10·45
Christians	811	51	6·28
Jews	333	65	19·51
Total ...	17,731	1403	7·91

58. The Medical Officers of the Schools Committee have made further examination of children attending the Municipal Schools, and the following is the result of the examination by castes :—

Castes.	No. of children examined.	No. with enlarged spleen.	Percentage.
Hindus	3,259	104	3·19
Mahomedans	1,912	82	4·28
Parsees	6	1	16·66
Christians	14	Nil.	0·00
Jews	11	Nil.	0·00
Total ...	5,202	187	3·59

59. They had examined 8,714 children in the year 1914 as reported in para. 40 of that year's report.

60. Thus the total number of children examined by the three Medical Officers under the Schools Committee during one year ending April 1915, was as follows:—

Castes.	No. of children examined.	No. with enlarged spleen.	Percentage.
Hindus	10,838	317	2·92
Mahomedans	2,778	107	3·85
Parsees	225	10	4·44
Christians	25	2	8·00
Jews	50	5	10·00
Total ...	13,916	441	3·16

61. *Random Sampling*:—Random sampling was continued during the year under report. The parasite rate by Wards and Sections was as under:—

Ward.	Sections.	Month.	No. examined.	Parasites found in.	Percentage.
A	Esplanade	January, April, May & September.	421	3	0·71
	Fort North	December	100	1	1·00
B	Dongri	April	25	0	0·00
C	Dhobi Talao	December	102	0	0·00
	Fanaswadi	January	31	0	0·00
D	Chowpati	March	80	0	0·00
E	Mazagon	July	40	0	0·00
	Tarwadi	August, October & December.	138	4	2·89
	Byculla	February	102	0	0·00
F	Sewri	October	35	1	2·85
	Sion	Do.	25	0	0·00
G	Worli	Do.	40	0	0·00
	Total ...		1,139	9	0·79

62. The District Registrars sent 226 specimens of blood slides of patients suffering from Fever and the following table shows the results by Districts:—

Slides sent by.	No. of slides sent.	No. in which parasites were found.	Percentage.
District Registrar No. 1	54	16	29·62
,, ,, 5	122	9	7·37
,, ,, 7	1	*Nil.*	0·00
,, ,, 8	49	13	26·53
Total ...	226	38	16·86

63 The following table shows the mortality from Malaria by Wards :—

Ward	1908.	1909.	1910.	1911.	1912.	1913.	1914.	1915.
A	77	72	80	81	91	65	51	37
B	133	71	78	112	101	47	25	32
C	41	45	50	52	58	53	42	28
D	38	20	29	23	22	24	22	18
E	35	51	37	39	56	47	45	50
F	5	11	9	9	22	10	11	28
G	6	6	1	10	7	11	9	12
Harbour. ...	6	17	9	8	3	4	8	3
Total ...	341	293	293	334	360	261	213	208

64. The result of the spleen and parasite rates of the temporary chawls of the City Improvement Trust near Carnac and Palton Roads was as under :—

—	1909.	1912.	1913.	1914.	1915.
Spleen rate	56	36·00	18·01	14·89	8·33
Parasite rate	40	19·17	3·12	4·44	1·17

65. The following table shows at a glance by Wards the spleen and parasite rates and Malarial mortality for the last five years :—

	Spleen Rate.					Parasite Rate.					Mortality from Malaria.				
—	1910.	1912.	1913.	1914.	1915.	1910.	1912.	1913.	1914.	1915.	1910.	1912.	1913.	1914.	1915.
A ...	29·9	33·50	15·87	12·32	6·95	34·8	10·54	2·98	2·51	0·76	80	91	65	51	37
B ...	13·0	15·03	5·18	6·31	3·45	13·1	3·01	2·89	1·42	0·00	78	101	47	25	32
C ...	5.9	9·99	4·89	5·50	2·91	34·5	14·14	1·88	1·38	0·00	50	58	53	42	28
D ...	2·7	3·90	3·41	5·77	2·81	3·8	0·00	0·00	1·86	0·00	29	22	24	22	18
E ...	1·8	11·40	4·96	4·56	5·26	3·8	7·97	5·45	1·58	2·89	37	56	47	45	50

66. 572 Specimens of Anopheles larvæ were examined in this office and tabulated as under :—

Neocellia stephensi	145	572
Nysso-myzomyia rossi	404	
Nyssorhynchus jamesi	1	
Myzorhynchus barbirostris	17	
Myzomyia culcifacies	5	

258 samples of larvæ of Anopheles and 203 of those of Culex and Stegomyia were sent to the Director, Bombay Bacteriological Laboratory, for his information.

67. The following table shows by wards the number of wells in each ward filled in, covered over, etc., upto the end of December 1915 :—

Ward.	Section.	Total No. of Wells.	Wells filled in.	Wells hermetically covered.	Wells hermetically covered and hand pumps fixed.	Wells covered leaving Trap-doors.	Wells covered leaving trap-doors and hand pumps attached.	Under fish trial.	Under Correspondence.	Cases being covered by Municipal Agency.	Under Notice.	In Court.	Not breeding.
A	Fort North..	532	58	143	13	273	6	21	4	..	..	..	14
	Fort South..	54	16	22	5	7	3	..	..	..	..	..	1
	Esplanade ..	68	14	18	8	16	3	..	6	1	..	..	2
	Colaba	65	18	15	3	19	2	3	3	..	..	..	2
	Total ..	719	106	198	29	315	14	24	13	1	..	..	19
B	Market ..	268	17	68	36	106	14	9	9	..	..	..	9
	Chukla ..	74	17	32	7	12	3	1	..	..	..	..	2
	Mandvi ..	75	15	7	8	30	7	1	2	..	..	..	5
	Umarkhadi..	49	18	12	2	9	5	..	3	..	..	..	..
	Dongri.. ..	14	9	1	2	..	1	..	..	..	..	..	1
	Total ..	480	76	120	55	157	30	11	14	..	..	..	17
C	Dhobi Talao.	409	33	77	21	218	22	12	12	..	..	..	14
	Fanaswadi ..	253	18	30	18	108	20	33	10	..	..	..	16
	Bhuleshwar..	175	13	37	16	50	12	6	16	..	..	..	25
	Kumbharwada.	50	14	7	7	16	1	3	..	..	..	..	2
	Khara Talao.	9	3	1	1	3	..	..	1	..	..	..	..
	Total ..	896	81	152	63	395	55	54	39	..	..	..	57
D	Khetwadi ..	224	38	51	14	83	9	4	8	..	1	1	15
	Girgum ..	332	50	76	13	120	23	6	14	2	3	1	24
	Chowpati ..	144	32	40	7	41	9	5	3	1	2	..	5
	Walkeshwar .	128	20	13	9	34	9	5	9	1	2	..	26
	Mahalakshmi (upper).	91	12	12	7	20	6	8	8	..	1	1	16
	Total ..	919	152	192	50	298	56	28	42	4	9	3	86
E	Mazagon ..	97	20	14	6	18	4	3	17	4	5	..	6
	Tarwadi ..	115	22	21	6	34	7	4	12	1	..	..	8
	Byculla ..	66	23	13	7	14	3	1	4	..	..	..	1
	1st Nagpada.	2	1	1	..	..	..	..	..	..	..	..	..
	2nd Nagpada.	8	1	4	3	..	..	..	..	..	..	..	..
	Kamathipura.	8	4	3	..	1	..	..	..	..	..	..	..
	Tardeo ..	34	5	8	2	15	2	1	..	..	..	..	1
	Lower Mahalakshmi.	41	12	14	2	9	1	1	1	..	..	..	1
	Total ..	371	88	78	26	91	17	10	34	5	5	..	17
	A-E. Wards Total.	3,385	503	740	223	1,256	172	127	142	9	14	3	196
F	Parel ..	95	19	9	1	3	..	50	12	..	1	..	..
	Sewri ..	112	3	2	..	1	..	98	8	..	..	..	..
	Sion ..	325	17	..	1	8	1	283	15	..	..	..	..
	Total ..	532	39	11	2	12	1	431	35	..	1	..	..
G	Mahim ..	546	15	7	1	5	..	80	42	..	..	..	396
	Worli ..	362	17	5	2	2	..	54	29	..	..	..	253
	Total ..	908	32	12	3	7	..	134	71	..	..	..	649
	Grand Total ..	4,825	574	763	228	1,275	173	692	248	9	15	3	845
			Filled in.	991 Hermetically covered.		1,448 Covered leaving trapdoors.		Under fish trial.	275 Under correspondence, etc.				Not Breeding.

68. Out of 3,385 wells in A, B, C, D and E Wards, 2,894 have been protected, giving a percentage of 85·49 to the total number.

Out of the remaining 491—

127 are under fish trial.
142 are under correspondence.
9 work to be done by Municipal agency.
14 under legal notice.
3 in Court.
196 not breeding at present.

491

If we take the whole City (*i.e.*, 4,825 wells) then the percentage of wells and tanks protected (*i.e.*, 3,013) to the total number comes to 62·44.

69. The following Table shows the number of prosecutions for Wells and Tanks instituted and their results :—

Years.	Total No. of prosecutions instituted.	Nos. complied with, withdrawn and acquitted.	Nos. convicted and fined.	Amount of fine.	Percentage of convictions to the No. of cases heard.	Remarks.
				Rs. a. p.		
1912 ..	99	79	13	134 0 0	14·34	7 cases postponed to next year.
1913 ..	389	296	45	479 0 0	13·19	55 do. do.
1914 ..	226	228	32	434 0 0	12·30	21 do. do.
1915 ..	101	85	13	230 0 0	13·26	3 do. do.
Total ..	815	688	103	1,277 0 0	12·68	3 do. do.

70. *Fever cases in hot weather.*—In the months of October and November last, there were many cases of fever in the City, particularly in F and G wards, as can be evidenced from the daily increase in the attendance of fever cases in the Municipal and other Dispensaries.

The increased incidence was due to the intermittency of the rains and the prolongation of the *hot weather* into November. In this connection I quote the following from Sir Ronald Ross's book on Malaria :—

"I wish to call attention to a phenomenon which I have named the "*hot weather rise*" in the Malaria admission rate. Almost throughout India the admissions tend to increase slightly in the months of March or April and this increase is so constant that it cannot be due to accident. To what then is it due? The season is too early for the rise to be attributed to fresh infections by Anophelines, and I can therefore place it only to the score of relapses caused by the rapidly increasing heat of the tropical spring. Quite on other grounds I have long been forced to infer that great external heat is favourable to the parasites of Malaria both human and ovian. Thus the obstinacy of cases in the hot weather and the great improvement caused by removal to a Hill Station or to Europe are well recognized by practitioners."

"The hot weather rise is merely due to relapses encouraged by the temperature."

"The Annual reports of the Sanitary Commissioner with the Government of India show that in station after station and year after year the admission rates for Intermittent Fever tend to be lowest in February and March and to be highest in September, October and November. That is the admissions begin to increase about two months after the commencement of the rains, and continue to increase with the accumulation of cases until November after which a decline, due to recoveries, occurs."

I quote the above paras. at length, as many persons attribute the hot weather rise of Malarial cases to inefficacy of the measures adopted upto now.

The following report was made in October last to the Executive Health Officer on this point:—

"The children in the several Mills in F and G wards were inspected. The spleen rate in F ward was 2·75 and in G 3·73.

185 blood slides of children in the several Mills were taken and they are still under examination.

The mosquitoes found in F and G wards are mostly rossi as will be seen from the return enclosed herein.

The Dispensary Returns of the Private Medical Practitioners, a summary of which is enclosed herein, shows that the September and October of this year the number of fever cases has been much more than in the corresponding month of the last year. It is said that Malarial Fever this year is on the increase, but on enquiry I find that these Fever cases are not all Malarial. Some of them are of Influenza, some of 4 and 7 days' types of fevers and some relapses of the Old Malaria attacks. There is always "a hot weather rise" in the Malaria admission rate, but this year owing to the exceptional condition of monsoon there were many places for breeding of larvæ. We hope that with the setting in of the cold weather, the Fever cases will diminish."

71. Malaria Sub-Committee.—The Malaria Sub-Committee of the Corporation met several times and examined about 12 witnesses. A report on their evidence was submitted and it is still under the consideration of the Sub-Committee.

72. The following table shows in a tabular form the actual work done during the year and also the figures for the same from the beginning of the Malaria Department upto the end of the last year.

——	1912.	1913.	1914.	1915.	Total from the beginning.
No. of wells filled in	244	119	87	124	574
No. of wells hermetically covered	400	332	189	70	991
No. of wells covered with Trap-doors ..	381	407	305	355	1,448
No. of wells, etc., in which sanction of the Standing Committee or Municipal Commissioner was received.	214	531	321	177	1,243
No. of houses inspected by the staff (including repetitions)	208,804	217,366	175,770	162,291	764,231
No. of notices issued re : cisterns, etc.	....	119	1,253	886	2,258
No. of cisterns hermetically covered	1,161	690	2,428	3,458	7,737
No. of children examined for spleen by the Malaria staff	12,026	18,613	10,347	14,065	55,051
No. of blood slides examined	1,333	1,717	1,207	1,365	5,622
No. of larvæ samples classified	3,517	2,722	1,204	572	8,015
No. of Lectures delivered	15	7	2	2	26
Quantity of Quinine distributed	32,650	51,604	30,476	25,430	140,160
Grs ii	9,400	13,150	8,050	7,600	38,200
Grs. iv	23,250	38,454	22,426	17,830	101,960
No. of pools treated with pesterine	11,473	39,435	47,679	21,342	119,929
No. of odd receptacles removed	....	....	3,878	6,241	10,119
No. of letters outwarded	27,780	31,236	34,053	34,819	127,888
No. of letters inwarded	20,043	22,940	27,793	28,857	99,633

(Figures for 1912 include those cases also as are complied with prior to 1912.)

73. The total expenditure of this Department from April 1912 to 31st December 1915 was Rs. 1,98,461.

74. The staff, both indoor and outdoor, worked satisfactorily during the year.

I have the honour to be,
Sir,
Your most obedient servant,

K. B. SHROFF, L.M. & S., D.P.H., D.T.M.,
Special Assistant to Health Officer, Malaria.

Report of the Analytical and Bacteriological work done in 1915.

I have the honour to submit the following report of work done in the Municipal Laboratory during the year 1915.

General.

During the year 1915, 6,419 samples were examined, 2,217 chemically and 4,202 bacteriologically* showing a decrease of 2,530 samples over those of 1914. This decrease is mainly due to the fact that the special research work in connection with milk was practically concluded during the year under review. In connection with the special work only 1,098 samples of milk were examined as compared with 3,085 in 1914, showing a decrease of 1,987. If these were to be excluded then there would be hardly any difference between the total number of routine samples examined during the year 1914 and those examined during 1915. In other words, the general work of the Laboratory continues to be about the same as during the last two years, the increase during 1914 being due to *special* research work.

I.—CHEMICAL.

Chemical.

Food-stuffs.

Food-stuffs.

Names of Samples.	Genuine.	Fair.	Doubtful purity.	Not Genuine.	Examined for fat.	Examined for catalase.	Examined for preservatives.	Examined for lactose.	Examined for starch.	Total.	Remarks.
Milk	413	3	43	229†	62	63	108	4	1	926	‡
Butter	19	..	..	..	..	..	..	..	..	19	‡
Ghee	18	4	..	1	..	..	..	..	..	23	‡
Oils	32	6	..	5	..	..	..	..	..	43	
Tea	2	2	..	10	..	..	..	..	..	14	
Coffee	2	3	..	4	..	..	..	..	..	9	
Flours	43	5	..	1	..	..	..	..	..	49	
Vinegar	1	1	..	1	..	..	..	..	..	3	
Ærated Waters	..	..	..	..	..	..	..	..	..	3	§
Skim Milk Powder ..	..	..	..	..	..	..	..	..	..	1	‖
Cocose Butter	..	..	..	..	..	..	..	..	..	1	¶
Total ..	530	24	43	251	62	63	108	4	1	1,091	

* Examination for each kind of microbe is counted as one sample as usual.
† Includes those that were received in bad condition.
‡ „ „ „ „ examined for special work.
§ Water used for its manufacture is fit.
‖ Samples received from private party for analysis.
¶ Sample received from the License Superintendent to see whether it was animal fat or vegetable oil.

Public Water-supply, etc.

Waters.

728 samples of waters were examined out of which 283 samples were of Public Water-supply, as detailed below :—

Source.	For Potable Purposes.					Water for Locomotive purposes.	Total.
	Fit.	Fair.	Objectionable.	Suspicious.	Unfit.		
Public supply	280	..	..	..	3	....	283 *
Wells	75	101	67	32	163	....	438
Tanks	..	1	..	..	2	....	3
Storage tanks	2	..	..	..	..	....	2
Not specified	..	..	..	..	..	2	2
Total ..	357	102	67	32	168	2	728

* Includes samples received from K. & S. Motor Works and private party.

Fat.

Fat.

Two samples of fat were examined and gave chemical tests for fat.

Drugs

Drugs.

Five samples of Sulphur were examined for their purity and found to be pure samples.

One sample of "Creosote" was examined for its purity and found to be impure sample.

One sample of Iodoform was examined for its purity and found to be free from ordinary impurities.

One sample of Liq. Hydrarg. Perchloride was examined and found to be of the same strength required by the British Pharmacopœa.

Miscellaneous.

Miscellaneous.

379 samples of urine were examined for diagnostic purposes, out of which one was received from the Special Assistant Health Officer, Arthur Road Hospital, and one from the Lady Doctor in charge of the Municipal Maternity Hospital and District Nurses and the remaining from the private Medical Practitioners.

Two samples of Lime were examined for per cent. of lime.

Two samples of White Zinc were examined for per cent. of Zinc Oxide.

Three samples of Sulphuric Acid were examined for qualitative tests.

Two samples of Torfit Paint were examined for experimental purposes.

Bacteriological.

II—BACTERIOLOGICAL.

Food-stuffs.

Food-stuffs.

In all 710 samples of milk were examined bacteriologically† as follows :—

655 Samples of milk were examined in connection with research work.

54 „ „ „ for B. Typhosus with negative results.

1 Sample of milk was examined for Diphtheria with negative results.

† See Foot-note on page first.

Water

Water.

1,276 Samples of waters were examined as follows :—

192 Samples of Bombay waters were examined for microbes per c. c.

Source.	Highest count.	Lowest count.
Unfiltered Vehar	1,065	203
Filtered Tulsi	362	108
Mixed Tulsi filtered and Tansa unfiltered... ...	519	310

960 samples of Bombay Water for Pathogenic microbes. (30 samples did not show Lactose Fermenters in 5 c. c. and less.)

20 samples of waters for Cholera Vibrio with negative results.
93 .. .. .. B. Typhosus .. .. ..
4 .. .. .. B. E. Sporogenes .. .. ..
1 .. .. .. Diphtheria .. .. ..
4 .. .. .. B. Coli .. positive ..
2 .. .. .. Microbes per c.c.

Disinfectants. Disinfectants.

13 samples of disinfectants were examined out of which 8 were of Zondo Fluid and the rest were of Izal Powder.

Glycerinated Vaccines. Glycerinated-Vaccines.

In this connection 2,044 capillary tubes of glycerinated vaccines were examined for the following:—

1,588 capillary tubes were examined for their sterility and
456 .. .. the detection of extraneous micro-organisms.

Miscellaneous samples for diagnostic purposes. Miscellaneous.

28 samples of Sputum for Tubercle Bacilli.
1 .. .. Streptococci.
1 .. .. Pus.
1 .. .. Blood.
1 .. .. Lung Tissue.
2 .. .. Blood .. Malaria.
1 .. .. Widal's Reaction.
1 .. .. Septicæmia Hæmorrhegic Bacilli.
7 .. .. Urine .. Gonococci.
3 .. .. Tubercle Bacilli.
30 .. .. Guinea-Pig fleas for B. Pestis.
5 .. .. Swabs for Diphtheria.
3 .. .. Stools .. Cholera.
4 .. .. flies .. Bacteriological Examination.
29 .. .. identification of their species.
1 .. .. Liquid Fuel for experiments on mosquitos and fleas.
1 .. .. Water deposit .. Microscopic Examination.
1 .. .. Worm .. .. ..
34 Guinea-Pigs for the detection of fleas.
5 Dead Guineas-Pigs for Post mortem examination.

III.—*Central Disinfection Depôt at Northbrook Gardens.* C. D. Depôt, Northbrook Gardens.

The work of preparation and issue of rat poison and mercurial solution was continued:—

	Rat Poison (Jars.)	Mercurial Solution (Jars.)
Balance on 1st January 1915	11	13
Prepared from 1st January to 31st December 1915 ..	144	125
Total.. ..	155	138
Issued from 1st January to 31st December 1915	141	138
Balance on 1st January 1916	14	*Nil.*

IV.—*Special Work.*

(1) *Preservatives in Bombay Milk.*

Two series of samples were examined. The first series comprised 53 samples obtained locally none of which contained boric acid or formaldehyde. The second series of samples of milk were imported mostly from Gujarat. Out of 55 such samples, ten contained formaldehyde. This shows that preservatives are being used by certain importers of milk in Bombay. The addition of preservatives to milk is prohibited by law in England, but there does not seem to be any such provision in our legislation. Preservatives in Bombay Milk.

Research Work.

(2) *Research Work in connection with butter and ghee.*

Several samples of genuine butter and ghee have been examined with a view of establishing definite chemical standards. A few samples of butter for this purpose have been made in the Laboratory. The work is being continued and will be reported in due course.

Book regarding the Milk Problem.

(3) *Special Investigation regarding the Bombay Milk Supply.*

This has been now embodied in the form of a book called "The Milk Problem in Indian Cities." The book contains the results of the Chemical and Bacteriological research work in connection with milk, a description of the principal breeds of cows and buffaloes with photographs, the milk-supply of several Indian Cities, the relation of milk to the public health and various remedial measures for the solution of the milk problem in India. In connection with this, I must express my gratitude to the Bombay Municipal Corporation for their generous contribution towards defraying part of the cost of printing.

Milk for Legal purposes.

374 samples of milk were examined chemically for *legal* purposes, as compared with 269 during 1914. 159 were found to be adulterated with water, the highest amount of extraneous water being 62 per cent. in a sample examined for the License Superintendent. Legal proceedings were taken in the case of 35 samples only. The fines imposed by the magistrates ranged from Re. 1 to Rs. 60. The details are tabulated below:—

Source.	Genuine.	Fair.	Doubtful purity.	Not genuine.	Examined for per cent. of fat.	Legal steps taken.	Fine ranging from
The Deputy Health Officer, A Ward ...	34	...	3	16	...	4	Rs. 5 to Rs. 30
" " " " B " ...	16	1	1	3	...	7	" 2 " " 30
" " " " C " ...	33	1	1	19	...	4	" 10 " " 30
" " " " D " ...	24	...	3	12	...	1	" 30
" " " " E " ...	50	...	8	29	...	5	" 5 " " 60
" " " " F " ...	9	...	1	37	...	7	" 5 " " 30
" " " " G " ...	7	...	1	23	...	...	.....
License Superintendent	5	...	1	15	16	7	Re. 1 to Rs. 30

Effects of War.

Considerable difficulty is experienced in obtaining all the necessary chemicals and apparatus both locally as well as from England on account of the War. Every possible effort is being made to effect economy in the use of the material that we have in stock.

Work of the staff.

The work of the Laboratory staff has been very satisfactory.

I have the honour to be,
Sir,
Your most obedient servant,

LEMUEL LUCAS JOSHI, M.D., B.Sc., D.T.M., F.C.S.,
Municipal Analyst.

February 22nd, 1916.

STATEMENT SHOWING THE NUMBER OF SAMPLES EXAMINED CHEMICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1915.

Received from	Milk.	Well Water.	Butter.	Ghee.	Oils.	Tea.	Coffee.	Flour.	Urine.	Bombay Waters.	Vinegar.	Tap Water.	Torfit Paint.	Soda Water.	Sulphur Roll.	Water for Locomotive purposes.	Storage Tank Waters.	Skim Milk Powder.	Fat.	Lime.	White Zinc Paint.	Sulphuric Acid.	Creosote.	Iodoform.	Liq. Hydrarg perchloride.	Milk for preservatives.	Milk for lactose.	Milk for starch.	Cocoa Butter.	TOTAL.
Health Officer	4	..	..	..	..	..	..	..	..	..	..	1	..	..	5	..	2	..	..	..	..	..	..	1.	1	..	..	..	..	14
Municipal Analyst	447	..	18	10	1	..	..	..	..	234	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	40	4	1	..	762
Hydraulic Engineer	..	..	..	..	..	..	..	..	..	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	42
The Deputy Health Officer, A Ward	57	29	..	1	7	5	5	22	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	127
" " " B "	31	40	..	..	..	..	..	20	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	2	..	..	..	95
" " " C "	59	156	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	216
" " " D "	45	164	..	..	1	..	..	..	..	..	..	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	214
" " " E "	90	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	..	..	124
" " " F "	53	9	1	10	4	6	2	3	..	..	3	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	93
" " " G "	36	9	..	2	4	3	2	4	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	62
Executive Engineer	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	4
Municipal Storekeeper	..	..	..	..	26	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27
License Superintendent	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	1	40
Special Assistant Health Officer, Arthur Rd. Hospital	4	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	6
Municipal Maternity Home	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	3
Anti-Tuberculosis League	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Private	2	1	..	..	..	..	..	..	377	..	..	*1	..	..	..	2	..	1	..	..	..	3	..	..	..	..	..	..	..	387
GRAND TOTAL	860	438	19	23	43	14	9	49	379	276	3	7	2	3	5	2	5	1	2	2	2	3	1	1	1	55	4	1	1	2,217

* Sample of filtered water.

Statement showing the number of samples of milk examined chemically in the Municipal Laboratory, during the year 1915.

Received from	Genuine.	Fair.	Doubtful purity.	Not genuine.	Milk for preservatives.	Examined for per cent. of fat.	Examined for catalase.	Milk for Lactose.	Milk for starch.	Total.
Health Officer... ...	1	...	...	3	...	...	...	...	...	4
Municipal Analyst ...	231	1	24	63	65	46	63	4	1	498
The Dy. Health Officer, A Ward ...	34	...	3	16	4	...	...	...	...	57
„ „ B „	16	1	1	8	7	...	...	...	...	33
„ „ C „	33	1	1	19	6	...	...	...	...	60
„ „ D „	24	...	3	12	6	...	...	...	...	45
„ „ E „	50	...	8	29	7	...	...	...	...	94
„ „ F „	9	...	1	37	6	...	...	...	...	53
„ „ G „	7	...	1	23	5	...	...	...	...	36
License Superintendent.	5	...	1	15	...	16	...	...	...	37
Spl. Assistant Health Officer, Arthur Road Hospital	1	...	...	3	1	...	...	...	...	5
Municipal Maternity Home	1	...	...	...	1	...	...	...	...	2
Private	1	...	...	1	...	...	...	...	...	2
Grand Total ...	413	3	43	229	108	62	63	4	1	926

Statement showing the number of Ghee samples examined in the Municipal Laboratory, during the year 1915.

Received from	Genuine.	Fair.	Not genuine.	Total.
Municipal Analyst	16	.....	.....	10
The Dy. Health Officer, A Ward... ...	.....	1	.....	1
„ „ „ „ F „	6	3	1	10
„ „ „ „ G „	2	.....	.....	2
Grand Total ...	18	4	1	23

STATEMENT SHOWING THE NUMBER OF SAMPLES EXAMINED BACTERIOLOGICALLY, EXCLUDING WATER SAMPLES, IN THE MUNICIPAL LABORATORY DURING THE YEAR 1915.

Received from	Milk.							Centrifugalised Milk Deposit.				Milk for Diphtheria.	Sputum.					Urine.		Blood for Malaria.	Stool for Cholera.	Swabs for Diphtheria.	Water deposit for microscopic Examination.	Guinea pig for detection of Fleas.	Blood for septic Haemorrhagic.	G. Pig fleas for B. pestis.	Fleas.	Dead guinea pig for Postmortem.	Disinfectants.	Liquid Fuel.	Gly. Vaccines.	Butter.	Worms for Mic. Examination.	Blood for Widal's Reaction.	Total.
	Microbes per c.c.	Lactose fermenters.	Cholera.	B. Typhosus.	B. Sporogenes.	B. Coli Communis.	Streptococci.	Staphylococci.	Other Microbes.	Leucocytes.		Tubercle.	Streptococci.	Pus.	Blood.	Lung Tissue.	Gonococci.	Tuber bacilli.																
Health Officer	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	33	..	13	1	..	..	..	..	47
Municipal Analyst	75	75	..	..	75	75	75	75	75	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	604
Hydraulic Engineer	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	2
Spl. Asstt. Health Officer, Arthur Road Hospital	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
Vaccination Superintendent	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,044	..	..	..	2,044
Veterinary Inspector	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
The Dy. Health Officer, A Ward	..	..	..	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2	..	..	..	..	..	..	..	..	20
,, ,, ,, B ,,	..	..	..	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	..	11	..	3	..	..	..	..	..	..	31
,, ,, ,, C ,,	..	..	1	14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	..	10	..	..	..	..	..	..	..	..	30
,, ,, ,, D ,,	..	..	..	23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23
,, ,, ,, E ,,	..	..	..	30	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	5	..	4	..	4	..	1	..	..	..	..	..	45
,, ,, ,, F ,,	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	..	..	..	..	..	6
,, ,, ,, G ,,	..	..	..	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	..	2	..	..	..	..	..	..	..	..	24
Private	1	..	..	..	..	..	..	..	..	..	..	28	1	1	1	1	7	3	2	..	..	..	..	..	..	..	..	..	..	..	..	..	1	46
Total	76	75	1	103	75	75	75	75	75	75	1	28	1	1	1	1	7	3	2	3	5	1	34	1	30	33	5	13	1	2,044	4	1	1	2,926

STATEMENT SHOWING THE NUMBER OF WATER SAMPLES EXAMINED BACTERIOLOGICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1915.

Received from	Public Water Supply.							Total.
	Microbes per c. c.	Cholera.	Enteric.	Gartners.	Lactose fermenters.	B. E. Sporogenes.	Diphtheria.	
Health Officer	2	2	...	...	2	2	...	8
Municipal Analyst	192	192	192	192	192	192	...	1,152
The Dy. Health Officer, A Ward ...	...	5	...	...	...	...	...	5
,, ,, ,, ,, B ,, ...	...	3	9	...	...	...	..	12
,, ,, ,, ,, C ,, ...	...	3	25	...	...	...	...	28
,, ,, ,, ,, D ,, ...	...	...	1	...	...	...	..	1
,, ,, ,, ,, E ,, ...	...	2	40	...	...	...	1	43
,, ,, ,, ,, F ,, ...	...	2	...	...	...	...	...	2
,, ,, ,, ,, G ,, ...	...	3	18	...	1	2	...	24
Private	...	...	...	...	1	...	...	1
Total ...	194	212	285	192	196	196	1	1,276

STATEMENT SHOWING THE NUMBER OF WATER SAMPLES EXAMINED BACTERIOLOGICALLY IN THE MUNICIPAL LABORATORY DURING THE YEAR 1915, FOR PATHOGENIC MICROBES, AND IN WHICH THEY WERE DETECTED.

Cholera.		B. Typhosus.		B. Enteritidis Sporogenes.		Lactose Fermenters. (B. Coli Communis).		Gartners.		Diphtheria.	
I	II	I	II	I	II	I	II	I	II	I	II
212	*Nil.*	285	*Nil.*	196	*Nil.*	196	166	192	*Nil.*	1	*Nil.*

Remarks :—I=Total number of samples examined.
II=Total number of samples in which the organisms were detected.

STATEMENT OF WELL WATERS EXAMINED IN THE MUNICIPAL LABORATORY, DURING THE YEAR 1915.

No.	Received from	Situated at	Opinion as to Potability.
1	Malaria Inspector, B Ward ..	21-23, Agiari Cross Lane	Fair.
2	Do. do. D do. ..	3, Damar Lane	Objectionable.
3	Do. do. C do. ..	39, New Wadi	Unfit.
4	Deputy Health Officer, G do. ..	90, Mahim Custom Road	Objectionable.
5	Malaria Inspector, B do. ..	271-273, Janjiker Street	Fit.
6	Do. do. D do. ..	2-A, Charni Road	Objectionable.
7	Do. do. C do. ..	1-2, C. P. Tank Road..	Unfit.
8	Do. do. C do. ..	1-4, Ardeshir Dady Cross Lane	,,
9	Do. do. B do. ..	224, Musjid Bunder Road	Objectionable.
10	Do. do. A do. ..	135-137, common to No. 133, Cawasji Patel Street.	Fit.
11	Do. do. B do. ..	48-50, Samuel Street..	,,
12	Do do. B do. ..	59-63, Do.	Unfit.
13	Do. do. A do. ..	85, common to No. 79-83, Cawasji Patel Street ..	Fit.
14	Do do. D do. ..	18, Benham Hall Lane	Objectionable
15	Do. do. C do. ..	27-29, Girgaum Back Road..	,,
16	Do. do. D do. ..	24-25, Lamington Road	Unfit.
17	Do do. A do. ..	Great Western Hotel, Apollo Street	Fit.
18	Do. do. C do. ..	72-74, 1st Marine Street	,,
19	Do. do. B do. ..	98, Samuel Street	Suspicious.
20	Do. do. A do. ..	Road side from Carriage Street	Fit.
21	Do. do. D do. ..	1-2, Girgaum Back Road	Objectionable.
22	Do. do. A do. ..	130, (Agiari), Cawasji Patel Street	Fit.
23	Do. do. C do. ..	116, Dadisheth Agiari Street..	Fair.
24	Deputy Health Officer, G do. ..	Dairy Steam Soap Works, D'Lisle Road	Objectionable
25	Malaria Inspector, A do. ..	41, Nanabhai Lane, entrance from C. P. Street ..	Fair
26	Deputy Health Officer, F do. ..	36, Elphinstone Road, Parel, Well No. II. ..	Fit
27	Do. do. F do. ..	Do. do. do. do. Well No. I	Objectionable.
28	Do. do. G do. ..	140-142, Lady Jamsetji Road	Fair.
29	Malaria Inspector, E do. ..	East of Byculla Jail, Clare Road	Objectionable
30	Do. do. E do. ..	West do. do do.	Unfit.
31	Do. do. A do. ..	281, Hornby Road	Fit.
32	Do. do. D do. ..	75, Harvey Road	Objectionable
33	Do. do. D do. ..	10-11, Khatar Alli	Unfit.
34	Do. do. B do. ..	16-20, Sutar Galli	,,
35	Do. do. C do. ..	32-34, New Wadi	Objectionable.
36	Do. do. A do. ..	126-128, Cawasji Patel Street	Unfit.
37	Do. do. B do. ..	396-398, Shaik Meman Street	,,
38	Do. do. A do. ..	28, Parsee Bazar Street	Fit.
39	Do. do. D do. ..	260, Girgaum Back Road	Fair.
40	Do. do. C do. ..	95-105, Pakmodia Street	Unfit.

No.	Received from	Situated at	Opinion as to Potability.
41	Malaria Inspector, B Ward ..	106-108, Tandel Street, well to centre, Cemetery No. 11.	Unfit.
42	Do. do. C do. ..	110-112, Sonapur Street	Objectionable.
43	Do. do. A do. ..	17-19, Churchgate Street	Fair.
44	Do. do. B do. ..	106-108, Tandel Street, well at the back of Cemetery No. 11.	Objectionable.
45	Do. do. C do. ..	114, Sonapur Street..	Unfit.
46	Do. do. D do. ..	76 (4), Girgaum Back Road	,,
47	Deputy Health Officer, F do. ..	429, 429-A, Sewri-Koliwada	Suspicious.
48	Malaria Inspector, D do. ..	26-A, Khetwadi 8th Lane	,,
49	Do. do. C do. ..	197, Kumbharwada	Unfit.
50	Do. do. E do. ..	Well to N. West 1-4, Wari Bunder Road ..	Fit.
51	Do. do. E do. ..	Do. S. West do. do. do.	Suspicious.
52	Do. do. E do. ..	Do. S. East do. do. do.	Objectionable.
53	Do. do. D do. ..	14, Khetwadi 8th Lane	Unfit.
54	Do. do. C do. ..	41, 2nd Fanaswadi	,,
55	Do. do. E do. ..	35, Parel Road, Mewavala's Agiari	Suspicious.
56	Do. do. A do. ..	42-46, Gola Lane Agiari	Fit.
57	Do. do. C do. ..	9, Anantwadi	Unfit.
58	Do. do. E do. ..	164 (2), Foras Road	,,
59	Do. do. A do. ..	174-176, Mody Street	Fit.
60	Do. do. A do. ..	108-110 Do. do.	,,
61	Do. do. C do. ..	158, Grant Road	Unfit.
62	Do. do. D do. ..	48, Mugbhat Cross Lane	Objectionable.
63	Deputy Health Officer, F do. ..	1580-1581, Parel Village	Fair.
64	Malaria Inspector, C do. ..	3, Panchait Wadi	Fit.
65	Do. do. D do. ..	6, Damar Lane	Objectionable.
66	Do. do. A do. ..	194-196, Bohara Bazar Street	Fair.
67	Do. do. C do. ..	24-26, Mahadeo Shanker Shet Street	,,
68	Deputy Health Officer, G do. ..	711, Portuguese Church Street	Unfit.
69	Malaria Inspector, D do. ..	7-8-9, Damar Lane	Objectionable.
70	Do. do. B do. ..	503-507, Kalbadevi Road	Fit
71	Do. do. C do. ..	185, Bhuleshwar Road	Fair.
72	Do. do. D do. ..	8-8A, Topiwalas Cart, Girgaum Back Road ..	,,
73	Do. do. C do. ..	107, Cavel	Fit.
74	Do. do. A do. ..	98, Colaba Road	Unfit.
75	Do. do. C do. ..	356-358, Kalbadevi Road	Fair.
76	Do. do. D do. ..	423-D, Walkeshwar Road to the West	,,
77	Do. do. C do. ..	50, Sonapur Street	Unfit.
78	Do. do. D do. ..	77, Khetwadi Main Road	,,
79	Do. do. E do. ..	14, Mazagaon Road (Israilette School)	Fair.
80	Do. do. D do. ..	5, Khetwadi 8th Lane	Slightly Objectionable.

No.	Received from			Situated at	Opinion as to Potability.
81	Malaria	Inspector,	C Ward ..	2, Malharrao Wadi	Suspicious.
82	Do.	do.	C do. ..	181, Queen's Road	Unfit.
83	Do.	do.	D do. ..	121-123, Girgaum Back Road	Fair.
84	Do.	do.	C do. ..	5, Malharrao Wadi	Suspicious.
85	Do.	do.	C do. ..	221-223, at Cavel	Unfit.
86	Do.	do.	D do. ..	143-45, Khetwadi Main Road	,,
87	Do.	do.	C do. ..	64-66 (3), Trinity Street	,,
88	Do.	do.	C do. ..	22-24, II Marine Street	,,
89	Do.	do.	D do. ..	6, Nikdawari Lane	Suspicious.
90	Do.	do.	C do. ..	8, Malharrao Wadi	Unfit.
91	Do.	do.	A do. ..	At Churchgate Street	Fit.
92	Do.	do.	C do. ..	4-6, Kolbhat Street	Objectionable.
93	Do.	do.	B do. ..	14, Agiari Cross Lane	Fair.
94	Do.	do.	C do. ..	29-31, Popatwadi	,,
95	Do.	do.	D do. ..	82, Gowalia Tank Road	Fit.
96	Do.	do.	B do. ..	43-53, Samuel Street	Unfit.
97	Do.	do.	B do. ..	157-165, Parel Road	,,
98	Do.	do.	A do. ..	Well behind at High Court	Fit.
99	Do.	do.	D do. ..	Near the entrance of the gate at 3A, Walkeshwar Road.	,,
100	Do.	do.	B do. ..	38-56, Vrij Mukundas Wadi and No. 15, Satta Galli.	Unfit.
101	Do.	do.	E do. ..	I Nagpada, Parel Road, No. 766A	Very Suspicious
102	Do.	do.	C do. ..	33, Anantwadi	Fit.
103	Do.	do.	B do. ..	20, Champa Wadi	Fair.
104	Do.	do.	B do. ..	169-179, Parel Road	Unfit.
105	Do.	do.	B do. ..	505-27, Kalbadevi Road and joint to No. 68, Mumbadevi Tank Road.	Fit.
106	Do.	do.	D do. ..	No. 9, Khattaralli	Unfit.
107	Do.	do.	B do. ..	Plot, No. 1, Carnac Road	,,
108	Do.	do.	C do. ..	2-4, 3rd Marine Street	,,
109	Do.	do.	B do. ..	357, Abdul Rahiman Street	Objectionable.
110	Do.	do.	D do. ..	137, Khetwadi Main Road	,,
111	Do.	do.	C do. ..	34-36, II Carpenter Street	Fair.
112	Do.	do.	C do. ..	104, Girgaum Road	,,
113	Do.	do.	C do. ..	38-40, New Vadi	Suitable.
114	Do.	do.	D do. ..	54, Banganga	Fair.
115	Do.	do.	C do. ..	52, I Carpenter Street	Unfit.
116	Do.	do.	D do. ..	5-7, Parsiwada II	,,
117	Do.	do.	C do. ..	1, Ropa Lane	Objectionable.
118	Do.	do.	A do. ..	7-9, Maturi Lane	Fair.
119	Do.	do.	B do. ..	16, Agiari Cross Lane	Unfit.
120	Do.	do.	C do. ..	1-15, Fanaswadi	,,

No.	Received from &	Situated at	Opinion as to Potability.
121	Malaria Inspector, D Ward	165-167, Khetwadi Back Road	Fair.
122	Do. do. C do.	No. 5, Kumbhar Lane	Unfit.
123	Do. do. C do.	133, North Brook Street	,,
124	Do. do. D do.	40-2, Walkeshwar Road, Dhobi Washing Place	Objectionable.
125	Do. do. C do.	27, Fanaswadi Street	Fair.
126	Do. do. C do.	88, Fanaswadi	Unfit.
127	Do. do. D do.	35A, Banganga	Fair.
128	Do. do. D do.	342, Falkland Road	Suspicious.
129	Do. do. C do.	No. 10, Sonapur Nakhooda Cemetery	Unfit.
130	Deputy Health Officer, G Ward	470, Mahim Agar, New Parbhadevi Road	Most Unfit.
131	Malaria Inspector, D Ward	5, Gowalia Tank Road	Fair.
132	Do. do. C do.	7-9, New Wadi	Unfit.
133	Do. do. C do.	147, Bhuleshwar Road	Fair.
134	Do. do. D do.	21, Banganga	,,
135	Do. do. D do.	133-37, Girgaum Back Road, behind Hum House.	,,
136	Do. do. C do.	3 5, New Wadi	Objectionable.
137	Do. do. D do.	14 (4-5), Thakurdwar Road	Fair.
138	Do. do. D do.	6A, 6B, 6C, Tardeo Road	Unfit.
139	Do. do. C do.	23 27, New Wadi	Fair.
140	Do. do. D do.	South-east at 4-5, Tardeo Road	Objectionable.
141	Do. do. C do.	41-43, New Wadi, Bhatia Sanitorium	Fair.
142	Do. do. D do.	326-82. Girgaum Road, 5A, Nana's Wadi	Unfit.
143	Do. do. D do.	12, Sadashiv Street	Fair.
144	Do. do. C do.	24, 3rd Marine Street	Fit.
145	Do. do. B do.	27-31, Ovalwadi	Objectionable.
146	Do do. D do.	42, Banganga	Fair.
147	Do. do. A do.	259-261, Hornby Road	Fit.
148	Do. do D do.	43, Khetwadi III Lane	Fair.
149	Do. do C do.	163, Queen's Road	Unfit.
150	Do. do D do.	33, Khotachi Wadi	Fit.
151	Do. do. C do.	45-47, Cathedral Street	Unfit.
152	Do. do. D do.	14, Benham Hall Lane	Fit.
153	Do. do A do.	131-133, Bazar Gate	Unfit.
154	Do. do. D do.	43, Khetwadi 3rd Lane	Objectionable.
155	Do. do C do.	2-3, Zaoba's Cart	Fair.
156	Do. do. D do.	1, Thakurdwar Road	Unfit.
157	Do. do. E do.	30, Mount Road (East)	,,
158	Do. do. E do.	30, ,, ,, (West)	,,
159	Do. do. C do.	22-24, Fanaswadi	Suspicious.
160	Do. do. C do.	28-30, II ,,	Unfit.
161	Do. do. D do.	16, Benham Hall Lane	Fit.

No.	Received from	Situated at	Opinion as to Potability.
162	Malaria Inspector, C Ward ..	13–15, Mahadeo Shankerset Lane	Objectionable.
163	Deputy Health Officer, G do. ..	21, Worli Koliwada	Unfit.
164	Mr. S. N. Thosar (Private) ..	Well at Kurla	,,
165	Malaria Inspector, D Ward ..	219–21, Girgaum Back Road	Suspicious.
166	Do. do. D do. ..	66, Mugbhat Cross Lane	Fit.
167	Do. do. C do. ..	38, Zaoba's Oart	Unfit.
168	Do. do. A do. ..	Jain Boarding House, Colaba	,,
169	Do. do. C do. ..	7, II Fanaswadi with No. 14–16, Fanaswadi ..	,,
170	Do. do. D do. ..	17, Benham Hall Lane	,,
171	Do. do. A do. ..	St. Xavier's School south-east corner Carnac Road.	Objectionable.
172	Do. do. C do. ..	Joint well 13, II Fanaswadi with No. 18, Fanaswadi.	Suspicious.
173	Do. do. D do. ..	3, Damar Lane	,,
174	Do do. C do. ..	326–82 (6), Girgaum Road, Nana's Wadi.. ..	,,
175	Do do. C do. ..	401, Girgaum Road	Unfit.
176	Do. do. D do. ..	51–53, Banganga	,,
177	Do. do. B do. ..	503–527, Kalbadevi joint to 68 Mumbadevi Tank Road.	Fair.
178	Do. do. C do. ..	122, Sonapur Street..	Unfit.
179	Do. do. C do. ..	76, Girgaum Road, Atash Behram Fire Temple..	Fair.
180	Do. do. C do. ..	(13) 326–82, Girgaum Road	Unfit.
181	Do. do. D do. ..	209, Girgaum Back Road to the West	,,
182	Do. do. C do. ..	107–111, Trinity Street (Fire Temple)	,,
183	Do. do. C do. ..	60, Dadyset Agiary Street	,,
184	Do. do. D do. ..	701-703, Girgaum Road	,,
185	Do. do. D do. ..	699, Girgaum Road	Objectionable.
186	Do. do. C do. ..	5–6, 1st Kolbhat Lane	Unfit.
187	Do. do. D do. ..	7–8–9, Damar Lane	,,
188	Do. do. C do. ..	138–148, Kalbadevi Road	,,
189	Do. do. C do. ..	10–12, Mahadev Shet Lane..	,,
190	Do. do. D do. ..	262, Girgaum Back Road	Suspicious.
191	Do. do. C do. ..	14, Panchayat Wadi	Fair.
192	Do. do. D do. ..	74–75, at Banganga	Fit.
193	Do. do. B do. ..	2, Mumbadevi Temple Tank Road	Suspicious.
194	Do. do. C do. ..	23–25, 2nd Fanaswadi	Objectionable.
195	Do. do. D do. ..	266, Girgaum Back Road	Fair.
196	Do. do. D do. ..	55, Banganga, Bombay	Fit.
197	Do. do. D do. ..	577–9, Girgaum Road	Suspicious.
198	Do. do. C do. ..	3-7, Popatwadi	Unfit.
199	Do do C do. ..	84, 3rd Bhoiwada Lane	Objectionable.
200	Do. do. D do. ..	26, Mugbhat Cross Lane	,,
201	Do. do. C do. ..	7, Dubale's Wadi	Suspicious.

No.	Received from			Situated at	Opinion as to Potability.
202	Malaria	Inspector,	C Ward ..	336, Girgaum Road	Fair.
203	Do.	do.	C do. ..	383(23), Girgaum Road	Unfit.
204	Do.	do.	B do. ..	237–239, Kalbadevi Road	,,
205	Do.	do.	B do. ..	243–251, ,, ,, ...	Suspicious.
206	Do.	do.	C do. ..	10, 3rd Popatwadi	Fit.
207	Do.	do.	E do. ..	23, Mount Road, Dhobis Ghat	Unfit.
208	Do.	do.	D do. ..	5, Banganga Cross Lane	Objectionable.
209	Do.	do.	C do. ..	22–24, Ist Carpenter Street	Unfit.
210	Do.	do.	D do. ..	8, Banganga Cross Lane	Fair.
211	Do.	do.	C do. ..	12–22, Bhuleshwar Road	,,
212	Do.	do.	C do. ..	326–82, (5), Girgaum Road	Unfit.
213	Do.	do.	D do. ..	111–112, at Banganga	Fair
214	Do.	do.	C do. ..	No. 1, Maharaj Wadi (F. Wadi)	Slightly Objectionable.
215	Do	do.	C do. ..	15, Ardeshir Dadyset Agiary	Fair.
216	Do.	do.	C do. ..	19, Anantwadi	Unfit.
217	Do.	do.	B do. ..	23–31, Picket Road, Ovalwadi	Fair.
218	Do.	do.	B do. ..	1, Picket Road	,,
219	Do.	do.	C do. ..	8, Ardeshir Dady Cross Lane	Unfit.
220	Do.	do.	C do. ..	1, Khetwadi 10th Lane	,,
221	Do.	do.	B do. ..	27–29, Kazi Syed Street	,,
222	Do.	do.	D do. ..	8, Ardeshir Street	,,
223	Do.	do.	C do. ..	407–409, Girgaum Road	Fair.
224	Do.	do.	B do. ..	Clive Road near Elphinstone Bridge	Unfit.
225	Do.	do.	C do. ..	26, 3rd Bhoiwada Cross Lane	,,
226	Do.	do.	A do. ..	36–38, Bamonji Street	Objectionable.
227	Do.	do.	B do. ..	47, Kazi Syed Street	Unfit.
228	Do.	do.	E do. ..	57–59, D'Lima Street	,,
229	Do.	do.	C do. ..	8, Dhuswady	Fair.
230	Do.	do.	A do. ..	67–69, Maruti Lane	Unfit.
231	Do.	do.	D do. ..	4, Mangalwadi	,,
232	Do.	do.	C do. ..	21, Kumbhar Lane	Objectionable.
233	Do.	do.	E do. ..	3–18, Arab Lane	Unfit.
234	Do.	do.	B do. ..	279–281, Kalbadevi Road, common to 25 Ovalwadi.	Objectionable.
235	Do.	do.	A do. ..	9, Raghunath Dadaji Street	Unfit.
236	Do.	do.	D do. ..	23, Khattaralli	Fit.
237	Do.	do.	D do. ..	3A & 3B, Damar Lane	Fair.
238	Do.	do.	E do. ..	284–86, Hains Road	Unfit.
239	Do.	do.	A do. ..	16, Gola Lane	Objectionable.
240	Do.	do.	C do. ..	90–96, Fanaswadi Street	Fit.
241	Do.	do.	B do. ..	8–14, Sutar Chawl joint to No. 187–191, Shaik Memon Street.	Unfit.

No.	Received from			Situated at	Opinion as to Potability.
242	Malaria	Inspector,	D Ward ..	99-131, Kandewadi	Fair.
243	Do.	do.	E do. ..	9, Gun Powder Road	,,
244	Do.	do.	B do. ..	10-16, Ovalwadi	Objectionable.
245	Do.	do.	C do. ..	31-33, Sonapur Street	Fit.
246	Do.	do.	E do. ..	11, Gunpowder Road	Unfit.
247	Do.	do.	D do. ..	860 (1), Girgaum Road	,,
248	Do.	do.	C do. ..	38-40, 2nd Fanaswadi	,,
249	Do.	do.	B do. ..	33-35, Shamset Street	,,
250	Do.	do.	D do. ..	120-40, Mugbhat Lane	Fit.
251	Do.	do.	D do. ..	53, Gowalia Tank Road	,,
252	Do.	do.	E do. ..	59, Dockyard Road	Unfit.
253	Do.	do.	C do. ..	157, Bhuleshwar Road	,,
254	Do.	do.	D do. ..	23-24, Mangalwadi	Objectionable.
255	Do.	do.	D do. ..	332, Grant Road	Unfit.
256	Do.	do.	D do. ..	30 (2), Gowalia Tank Road (Gokuldas T. College.)	,,
257	Do.	do.	C do. ..	9, 1st Bhuleshwar Lane	Fair.
258	Do.	do.	A do. ..	The West Bombay Gymkhana	,,
259	Do.	do.	D do. ..	516-18, Girgaum Road	Unfit.
260	Deputy Health Officer,		G do. ..	158, 158a, 158ab, c, Worli Road	Fair.
261	Malaria	Inspector,	D do. ..	50, Neapean Sea Road	,,
262	Do.	do.	D do. ..	30-2, Gowalia Tank Road G. (Tejpal College) ..	,,
263	Do.	do.	C do. ..	17, Dadi Santuk Lane	Unfit.
264	Do.	do.	C do. ..	18, 3rd Marine Street	Objectionable.
265	Do.	do.	C do. ..	24, Venka Moholla	Unfit.
266	Do.	do.	C do. ..	83, 2nd Bhoiwada Lane	,,
267	Do.	do.	D do. ..	60, Walkeshwar Road	Suspicious.
268	Do.	do.	D do. ..	15-16, Dongarsee Road	Fair.
269	Do.	do.	D do. ..	West to No. 2-3 Hughes Road Fire Temple ..	Suspicious.
270	Do.	do.	D do. ..	45, Khetwadi Back Road	,,
271	Do.	do.	D do. ..	20-21, Dongarsee Road	Unfit.
272	Do.	do.	C do. ..	16, Panjrapole Street	,,
273	Do.	do.	C do ..	49, New Wadi	Fair.
274	Do.	do.	D do. ..	34-5, Khuttaralli	Fit.
275	Do.	do.	D do. ..	129-131, Girgaum Back Road	Objectionable.
276	Do.	do.	D do. ..	2-3, Hugh Road (Fire Temple)	Fair.
277	Do.	do.	D do. ..	101-105, Girgaum Back Road (Sadawarta) ..	Objectionable.
278	Do.	do.	D do. ..	53, Gowalia Tank Road	Fair.
279	Do.	do.	C do. ..	55-57, Bhuleshwar Road	Objectionable.
280	Do.	do.	C do. ..	120-122, Bhuleshwar Road	Unfit.
281	Do.	do.	D do. ..	14, Nikdawari Lane	Fair.
282	Do.	do.	D do. ..	33, Lamington Road	Unfit.

No.	Received from	Situated at	Opinion as to Potability.
283	Malaria Inspector, D Ward.. ..	75, Harvey Road, Irani Dhurmashalla	Fair.
284	Do. do. C do.	27-31, 3rd Bhoiwada, Mandvi	Unfit.
285	Do. do. C do.	63, 2nd Bhoiwada	,,
286	Do. do. D do.	26, Mugbhat Cross Lane	Fair.
287	Do. do. E do.	34-36, Wari Bunder Road	,,
288	Do do. E do.	31, Tank Bunder Road	Unfit.
289	Do. do. C do.	41, 3rd Bhoiwada Cross Lane	Fit.
290	Do. do. D do.	13, Warden Road	Suspicious.
291	Do. do. D do.	75-77, Chaupati Road	Unfit.
292	Do. do. E do.	2, D'Lisle Road Cross Lane	,,
293	Do. do. C do.	52, New Wady	Fit.
294	Do. do. E do.	6-10-44, Chinchpookli Road	Unfit.
295	Do. do. D do.	2, Babulnath Road to south of Temple	Fit.
296	Do. do. C do.	235-37, Bhuleshwar Road	,,
297	Do. do. B do.	121-27, 1st Chinch Bunder Street	Objectionable.
298	Do. do. C do.	17, 2nd Fanaswadi with 22 Fanaswadi	Fair.
299	Do. do. D do.	83A, Churney Road	Objectionable.
300	Do. do. C do.	27-29, 2nd Fanaswadi	Fit.
301	Do. do. D do.	West of Promises No. 24, Walkeshwar (Dhobi Ghat).	,,
302	Do. do. C do.	18, Zaobas Wadi	Objectionable.
303	Do. do C do.	164-166, Bapu Khoti Street	Unfit.
304	Do. do. D do.	35A, Banganga	Fair.
305	Do. do. D do	38, Khutturalli	Suspicious.
306	Do. do. C do.	75, (1) Dady Sett Agiary Street	,,
307	Do. do. D do.	61, Pedder Road	Unfit.
308	Do. do. D do.	538, Tardeo Road	Fair.
309	Do. do. D do.	74, Girgaon Back Road (Hirabag)	Objecticnable.
310	Do. do. D do.	11-16, Kolewadi	Fair.
311	Do. do. D do.	8-9, Mathew Road	Unfit.
312	Do. do D do.	23, Mugbhat Cross Lane	Fit.
313	Do. do. D do.	414, Grant Road	Unfit.
314	Do. do. D do.	49-50, Mugbhat Cross Lane	Fit.
315	Do. do. D do.	40, Mugbhat Cross Lane	,,
316	Do. do. D do.	4, Khetwady	Suspicious.
317	Do. do. D do.	414, Grant Road to south	Unfit.
318	Do. do. D do.	66, Mugbhat Cross Lane	Objectionable.
319	Do. do. D do.	75-76, Khotachi Wadi, Girgaum	,,
320	Do. do. D do.	74, Khotachi Wadi, Girgaum	Fair.
321	Do. do. D do.	166, (6), Girgaum Back Road	,,
322	Do. do. C do.	2, C. P. Tank Road	Objectionable.
323	Do. do. D do.	12, Sadashiv Street	Fit.

No.	Received from	Situated at	Opinion as to Potability.
324	Malaria Inspector, D Ward ..	29, Parsiwada 3rd	Unfit.
325	Do. do. D do. ..	42, Ardeshir Dady Street	Fit.
326	Do. do. B do. ..	720, Jail Road East, Umerkhadi, Civil Yard ..	,,
327	Do. do. D do. ..	27-29, Khetwadi 7th Lane	Unfit.
328	Do. do. D do. ..	12, Khutturalli	,,
329	Do. do. D do. ..	5, Gowalia Tank Road, (Marshal Lodge)	Fair.
330	Do. do. C do. ..	27-29, Girgaum Back Road	,,
331	Do. do. D do. ..	26, Warden Road	Unfit.
332	Do. do. D do. ..	52, Mugbhat Cross Lane	Fair.
333	Do. do. D do. ..	20, Khetwadi Main Road	Unfit.
334	Do. do. D do. ..	155, Do. do. Camabag	,,
335	Do. do. D do. ..	25, Sadashiv Street	Fit.
336	Do. do. C do. ..	75, Dadyshet Agiary Street, Fire Temple in front.	Fair.
337	Do. do. D do. ..	75, Dadyshet Agiary Street, back of Fire Temple.	,,
338	Do. do. D do. ..	10, Mugbhat Cross Lane	,,
339	Do. do. D do. ..	92 (9), Thakurdwar Road	Unfit.
340	Do. do. C do. ..	62, Cathedral Street	Fair.
341	Do. do. D do. ..	470-90, Girgaum Road	Unfit.
342	Do. do. C do. ..	160, Bhuleshwar Road	Objectionable.
343	Do. do. D do. ..	18, Warden Road	Fair.
344	Do. do. D do. ..	14, Do. do.	Unfit.
345	Do. do. D do. ..	567-9, Girgaum Road	Fit.
346	Do. do. D do. ..	577-9 Do.	Fair.
347	Do. do. D do. ..	699 Do.	Fit.
348	Do. do. D do. ..	589-91, Do.	,,
349	Do. do. D do. ..	701-3, Do.	,,
350	Do. do. D do. ..	538, Tardeo Road	Unfit.
351	Do. do. C do. ..	12 A., C. P. Tank Road	Objectionable.
352	Do. do. D do. ..	7, Sadashiv Street	,,
353	Do. do. B do. ..	17 19, Kazi Syed Street	Unfit.
354	Do. do. D do. ..	57, Kandewadi	Suspicious.
355	Do. do. D do. ..	70, Do.	Fair.
356	Do. do. D do. ..	99-131, Do.	Fit.
357	Do. do. D do. ..	35, (1-4), Kandewadi Street	,,
358	Do. do. D do. ..	31, Khutturalli	Fair.
359	Do. do. D do. ..	38, Do.	Objectionable.
360	Do. do. D do. ..	140, (6), Thakurdwar Road (Temple)	Suspicious.
361	Do. do. C do. ..	7-8, Thakurdwar Road	Fair.
362	Do. do. D do. ..	28, Mangalwadi Road	Fit.
363	Do. do. D do. ..	76, Nepean Sea Road	,,
364	Do. do. D do. ..	43, Banganga, Bombay	,,

No.	Received from	Situated at	Opinion as to Potability.
365	Malaria Inspector, D Ward ..	9-12, Nikdawari Lane	Fit.
366	Do. do. D do. ..	1, Thakurdwar Road	,,
367	Deputy Health Officer, F do. ..	108 to 116, Vincent Road	Unfit.
368	Do. do. F do. ..	Do. do.	,,
369	Malaria Inspector, D do. ..	3, Forget Street, Sonabai Agiary	Fit.
370	Do. do. D do. ..	4-5, Dongersey Road	Objectionable.
371	Do. do. C do. ..	22, Mahadeo Bhasker Lane..	,,
372	Do. do. C do. ..	104 (6), Fanaswadi, Patrachi Chawl	Suspicious.
373	Do. do. D do. ..	20-21, Dongersey Road	Fair.
374	Do. do. C do. ..	14, Punchayat Lane..	,,
375	Do. do. C do. ..	104, (8) Fanaswadi, Patrachi Chawl	Suspicious.
376	Deputy Health Officer, F do. ..	27b and 27c, Dadar Road	Unfit.
377	Malaria Inspector, D do. ..	2-4, Wilderness Road	,,
378	Do. do. C do. ..	8, Punchayat Lane	Fair.
379	Do. do. E do. ..	8, Love Lane..	Unfit.
380	Do. do. C do. ..	17-21, Karelwadi Thakurdwar	,,
381	Do. do. D do. ..	70, Nepean Sea Road	Fit.
382	Do. do. E do. ..	47-51, Chinchpookli (The New City Mill).. ..	Unfit.
383	Do. do. C do. ..	7, Punchayat Lane	Fit.
384	Do. do. C do. ..	463, Girgaum Road	Unfit.
385	Deputy Health Officer, F do. ..	31 a-b, Kalachowki Road	,,
386	Malaria Inspector, E do. ..	1, Gangabudy Road..	Fair.
387	Do. do. C do. ..	485-87, Girgaum Road	,,
388	Do. do. C do. ..	481-483, Do.	Objectionable.
389	Do. do. C do. ..	5, Punchayat Lane..	Fair.
390	Do. do. C do. ..	61-63, C. P. Tank Road	Unfit.
391	Do. do. E do. ..	46c, Reay Road	,,
392	Do. do. C do. ..	169-201 (13), Permanandwadi, Thakurdwar Road.	Suspicious.
393	Do. do. E do. ..	55-56, Chinchpookli Road	Unfit.
394	Do. do. D do. ..	Agiary compound of No. 43, Warden Road ..	,,
395	Do. do. C do. ..	351, Lohar Street	,,
396	Do. do. C do. ..	10, 3rd Phopalwadi	Objectionable.
397	Do. do. C do. ..	7, Do. do.	Unfit.
398	Do. do. D do. ..	146-8, Girgaum Back Road (Anand Bhuwan) ..	Fit.
399	Do. do. E do. ..	55-56, Chinchpookli Road	Unfit.
400	Do do. D do. ..	8, Damar Lane	Fair.
401	Do. do. E do. ..	67-81, Kalachowki Road	Fit.
402	Do. do. C do. ..	17, Jugannath Chall, Fanaswadi Street	Objectionable.
403	Do. do C do. ..	15 (A), Ardeshir Dady Street Agiary	Fair.
404	Do. do. C do. ..	(2), 107-111, Trinity Street, Anjuman Fire Temple	Unfit.
405	Do. do. C do. ..	372-374, Lohar Street	,,

No.	Received from	Situated at	Opinion as to Potability.
406	Malaria Inspector, A Ward ..	51, Gunbow Street	Fit.
407	Do. do. C do. ..	Awabai Wadia Agiary, Trinity Street	Fair.
408	Do. do. C do. ..	Awabai Wadia Agiary, 2nd Dhobi Talao Street ..	Objectionable
409	Do. do. D do. ..	42, 44 and 46, Pedder Road	Fair.
410	Do. do. A do. ..	14, Nanabhai Lane	Fit.
411	Do. do. C do. ..	65, Cathedral Street	Fair.
412	Do. do. C do. ..	9-15, Do. do.	,,
413	Do. do. C do. ..	139 (1), Queen's Road Sodawaterwalla's Agiary..	Unfit.
414	Do. do. C do. ..	139 (2), Do. do. ..	Objectionable
415	Do. do. D do. ..	3, Pedder Road (Seth Minor)	Fit.
416	Do. do. C do. ..	53, Dhus Wady	Unfit.
417	Do. do. D do. ..	1, Queen's Road, Ratnagar Palace..	Fair.
418	Do. do. C do. ..	19-21, 1st Panjrapole Street	Unfit.
419	Do. do. C do. ..	3-5, Do. do, ...	,,
420	Do. do. D do. ..	4, Khetwadi 10th Lane	Fair.
421	Do. do. C do. ..	4, 2nd Phopalwadi	Unfit.
422	Do. do. C do. ..	20, Do. do.	,,
423	Do. do. C do. ..	9, Do. do.	Fair.
424	Do. do. C do. ..	13, Hanuman Street	Unfit
425	Do. do. C do. ..	400-02, Kalbadevi Road	,,
426	Do. do. C do. ..	5 (9), Panjrapole Road	Objectionable.
427	Do. do. A do. ..	51, Gunbow Street, Manekji's Wadi	Fit.
428	Do. do. C do. ..	56, 3rd Bhoiwada Cross Lane	Unfit.
429	Do. do. D do. ..	Parsi General Hospital at Kambala Hotel Lane ..	Fair.
430	Do. do. B do. ..	150, New Hanuman Lane	Objectionable
431	Do. do. A do. ..	14, Nanabhai Lane	Unfit.
432	Deputy Health Officer, E do. ..	On Sion Road Bungalow	Fair.
433	Malaria Inspector, D do. ..	53, Gowalia Tank Road	Fit.
434	Deputy Health Officer, G do. ..	16b, 16bb, 16bbb, 16bbbb and 16A, Mahalaxmi Road.	Unfit.
435	Malaria Inspector, C do. ..	145, Girgaum Road	,,
436	Do. do. D do. ..	4, Altamont Road	Fit.
437	Deputy Health Officer, G Ward ..	158, 158a, 158ab, c, Worli Road	Objectionable.

No.	Received from	Situated at	Opinion as to Potability.
	TANK WATERS. (STORAGE.)		
1	Executive Health Officer	Storage Tank in the Government Telegraph Office.	Fit.
2	Do. do.	Do. do. do. do. ..	,,
3	Malaria Inspector, B Ward ..	Mumbadevi Tank	Unfit.
4	Do. do. D do. ..	Tank at 121-23, Girgaum Back Road	Fair.
5	Do. do. D do. ..	Tank situated at Banganga	Unfit.
	TAPWATERS.		
1	Deputy Health Officer, D Ward ..	Tap in K. & S. Motor Co., Nepean Sea Road ..	Fit.
2	Do. do. D do. ..	Tap in the bungalow of Raya Bahadur Shivlal Motilal at No 7, Narayan Dabholker Road.	,,
3	Do. do. D do. ..	Tap in the bungalow of Jugmohundas Vrindawandas No. 63, Warden Road.	,,

The Annual Report of the Superintendent of Vaccination for 1915.

I was in charge of the Department throughout the year. Superintendent.

The establishment consists of the Superintendent, the Assistant Superintendent, 10 Vaccinators, 5 Clerks, 17 Karkoons, 3 Peons and 15 Coolies. Vaccination Establishment.

2. The following Statement gives the number of persons primarily vaccinated and Re-vaccinated during 1915 and the preceding nine years, with the number of persons successful and the percentage of success :— Vaccine operations with results during 1906-1915.

Year.	Primary Vaccinations.			Re-vaccinations.			Total Number of persons vaccinated.		
	Number of persons vaccinated.	Number successful.	Percentage of success.	Number of persons re-vaccinated.	Number successful.	Percentage of success.	Number of persons vaccinated and re-vaccinated.	Number successful.	Percentage of success.
1906	17,036	15,719	92·00	1,744	178	10·21	18,830	15,897	84·42
1907	16,720	15,355	91·84	1,282	85	6·63	18,002	15,440	85·77
1908	19,122	16,801	87·86	4,633	257	5·55	23,755	17,058	71·80
1909	18,447	16,336	88·56	10,669	116	1·09	29,116	16,452	56·50
1910	17,356	15,371	88·56	23,600	70	·30	40,956	15,441	37·70
1911	19,312	17,819	92·27	18,786	86	·46	38,098	17,905	47·00
1912	20,946	18,876	90·13	17,094	201	1·18	38,040	19,079	50·15
1913	20,877	18,559	88·90	15,189	63	·41	36,066	18,622	51·62
1914	20,207	17,704	87·61	12,243	63	·51	32,450	17,767	54·75
1915	19,721	17,831	90·42	10,116	41	·41	29,837	17,872	59·90

It will be observed that the total number of persons operated upon during the year was 29,837 against 32,450 in 1914, of which 19,721 were Primary Vaccinations being 486 less than in 1914 and 10,116 were Re-vaccinations being 2,127 less than in 1914. Out of the Primary Vaccinations 10,530 were Bombay born and 9,047 out-born, compared with 11,166, 9,006 respectively in the last year.

Of the Primary Vaccinations 17,831 were successful, the percentage of success being 90·42, this, however, is raised to 97·78 if 1,485 "Unknown" Cases be left out. Of the Re-Vaccinations 41 were successful, yielding a percentage of ·41 which, however, is raised to 45·56 if 10,026 "Unknown" cases be excluded. Calculated on the total number of persons vaccinated, the percentage of success works out to 59·90.

3. The following table shows the results in Primary Vaccinations by age periods:— Primary Vaccination. Results by age-periods.

Under 1 year.			Between 1 and 6 years.			Above 6 years.			Total results.			Total operations.
Successful.	Unsuccessful.	Unknown.	Successful.	Unsuccessful.	Unknown.	Successful.	Unsuccessful.	Unknown.	Successful.	Unsuccessful.	Unknown.	
14,844 Ratio per mille of population. 15·14.	348	1,075	2,888	54	337	131	3	73	17,863 Ratio per mille of population. 18·24.	405	1,485	19,753

Vaccinations by others than the Vaccination Staff.

4. The subjoined Table shows the vaccinations performed by Private Medical Practitioners, the District Registrars of the Health Department, and the Medical Officers in charge of the two Jails and the Colaba Lunatic Asylum:—

	Primary Vaccinations.							Re-vaccinations.		
				Successful.						
	Males.	Females.	Total.	Under 1 year.	1 and 6 years.	All ages.	Unknown.	Total.	Successful.	Unknown.
District Registrars. ...	11	14	25	16	7	...	2	4	...	4
P. M. Practitioners ...	...	2	2	2	...	...	...	2,145	...	2,145
The two Jails... ...	...	...	...	...	...	...	...	117	97	2
Colaba Lunatic Asylum	...	...	...	...	...	...	...	...	...	...

Inspection of Vaccinations.

5. Table showing particulars of Primary and Re-Vaccinations verified by Inspecting Officers:—

Total number of persons vaccinated.		Total number inspected.				Percentage of inspection to total number vaccinated.				Percentage of cases found successful to total number inspected.				Percentage of success reported by the Vaccinators.	
		By the Superintendent.		By the Asstt. Supdt. and the Head Vaccinator.		By the Superintendent.		By the Asstt. Supdt. and the Head Vaccinator.		By the Superintendent.		By the Asstt. Supdt. and the Head Vaccinator.			
P.	R.	P.	R.	P.	R.	P.	R.	P.	R.	P.	R.	P.	R.	P.	R.
19,721	10,116	S. 6,146 F. 6,346 =12,198	S. 34 F. 34 =68	S. 6,586 F. 6,952 =13,538	S. 29 F. 30 =59	32·18	·67	35·15	·58	96·88	50·00	95·73	49·15	90·42	·41

Heifers inoculated, scraped for emulsion, &c.

6. The Table below shows by months number of calves inoculated, and the number rejected after inoculation owing to sickness; as also the number of calves scraped for emulsion during the year and the number used for calf-to-arm Vaccination:—

Heifers.	1915. January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Number inoculated...	59	48	58	47	45	39	55	45	64	42	50	49	601
Number successful ...	45	36	52	39	29	31	52	44	54	42	47	48	519
Number unsuccessful	5	3	1	...	2	4	1	...	2	...	...	...	18
Number rejected after inoculation owing to sickness	9	9	5	8	14	4	2	1	8	...	3	1	64
Number inoculated for emulsion	47	36	39	36	34	30	35	28	42	28	35	32	423
Number inoculated for calf-to-arm vaccination ...	12	12	19	11	11	9	20	17	22	14	15	17	179

Proceeds from the sale of lymph and from other sources.

7. The following Statement shows the proceeds from the sale of lymph, the fees realized from vaccination at private places, &c., during the year under report:—

Amount realized by the sale of lymph.	Municipal moiety of the fees from private vaccination.	Municipal fee (moiety only) for vaccination instruction to Medical Students.	Municipal fee for giving vaccination extracts, &c.	Total.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
8,828 8 0	653 4 0	490 0 0	137 6 7	10,109 2 7

8. The cost of each successful operation including all charges was Rs. 1-12-7 against Rs. 1-11-3 in the preceding year; if the amount realized by the sale of lymph, by fees for private vaccination, etc., (Rs. 10,109-2-7) be deducted from the total expenditure the cost works out Rs. 1-3-7 against Rs. 1-5-9 for the last year. Cost of single operation.

9. If calculated on the total number of vaccine operations, the cost of each operation, after deducting the proceeds from the sale of lymph, from private vaccination, etc., comes to Re. 0-11-8 against Re. 0-11-11 for the last year.

10. During the year under report 265 certificates of postponement of vaccination of children were granted. Postponement Certificates.

11. One prosecution was undertaken for neglect of vaccination; the party was convicted and fined Rs. 10. Prosecution under Vaccination Act.

12. The following Table shows the different kinds of lymph used, the operations done with each kind and the comparative results obtained during the year 1915 :— Work done with different kinds of lymph.

Kind of Lymph.	Number of operations.		Successful cases excluding the "Unknown."		"Unknown" cases.		Percentage of success excluding the "Unknown."	
	P.	R.	P.	R.	P.	R.	P.	R.
Human	...	...	...	...	...	...	...	...
Animal	4,830	2,518	4,398	32	357	2,455	98·32	50·79
Glycerinated	14,923	7,598	13,465	9	1,128	7,571	97·61	33·33
Total operations ...	19,753	10,116	17,863	41	1,485	10,026	97·78	45·56

13. During the year under report 3 Military Medical pupils, 64 Civil Medical and 31 other students attended the different Public Vaccine Stations in the City for receiving practical instruction in Vaccination. Instruction in Vaccination.

14. During the year under report the total number of deaths reported from Small-pox was 359 as against 252 in the year preceding. Small-pox.

The total number who left Bombay for the Haj during this period, was 2,433. Of these 2,311 were vaccinated in Bombay before embarkation, *i.e.*, 94·99 per cent.

The following Table shows the number of males and females and the number of Primary Vaccinations and Re-vaccinations performed amongst the Pilgrims by the Special Staff that was engaged for the purpose (*viz.*, 1 Vaccinator, 2 Clerks, and 2 Coolies.)

—	Males.	Females.	Total.
Primary Vaccinations	17	8	25
Re-vaccinations	1,979	307	2,286
Total number ...	1,996	315	2,311

The female pilgrims were vaccinated by Nurse, Mrs. Rachelbai.

Ill-effects by Vaccination.

No serious ill-effects following Vaccination were observed or brought to notice during the year.

Vaccination in Bandra and Kurla.

The following Table shows the Vaccination work done in the Bandra and Kurla Circles in 1915 compared with that done in 1914:—

Vaccination Circle.	Population according to the Census of 1911.	Year.	Children successfully vaccinated.		Children available for vaccination.	Persons primarily vaccinated.	Persons re-vaccinated.	Total number of persons operated upon.
			Under 1 year.	Under 6 years.				
Bandra	24,286	1914	211	101	396	363	87	450
		1915	240	146	454	524	369	893
Kurla	15,081	1914	57	41	151	152	.....	152
		1915	39	41	227	127	.....	127

J. S. NERURKER, B.Sc., L.M. & S., D.P.H. (*Cantab*),
Superintendent of Vaccination,
Bombay.

BOMBAY, 14*th March* 1916.

Meteorological Data (Government Observatory, Colaba), Latitude 18°-53'-36", North, Longitude 72°-48'-56", East.

MONTHS.	BAROMETER.	READING OF THERMOMETER.				Mean Maximum Solar Radiation.	Difference between Dew-point Temperature and Mean Air Temperature.	Degree of Humidity, complete Saturation being 100.	Prevailing Direction of Wind.	RAINFALL.		
	Mean Daily Readings.	Maximum.	Minimum.	Mean Daily Range.	Mean Daily Value.					Number of Days on which Rain fell.	Total Fall of Rain during the Month.	Maximum Fall of Rain.
1915.	In.	°	°	°	°	°	°				In.	In.
January	29·969	84·7	64·4	10·5	75·4	126·3	12·7	66	N. N. W.	.....	0·00	.....
February	·925	82·0	64·4	10·0	74·9	125·5	10·9	70	N. N. W.	1	0·30	0·30
March	·924	90·2	71·0	9·3	79·8	128·3	9·6	73	N. W.	3	0·69	0·56
April	·835	90·2	76·2	8·1	83·9	131·2	10·1	72	N. W.	2	0·06	0·04
May	·760	92·5	80·4	7·2	87·0	133·4	9·8	73	W. S. W.	4	0·36	0·20
June...	·659	92·6	77·6	5·9	85·0	123·0	7·8	78	W. S. W.	13	40·10	11·41
July	·683	88·2	76·1	5·0	82·8	120·2	5·3	84	W. S. W.	26	14·39	4·22
August	·728	85·8	75·7	4·3	81·6	119·7	5·6	88	W. S. W.	25	8·93	2·27
September	·753	86·3	76·6	5·4	81·5	124·1	5·2	85	W. N. W.	14	10·21	4·13
October	·795	89·1	75·2	6·5	81·9	127·7	6·5	81	W. S. W.	9	2·55	0·94
November	·846	89·2	73·2	9·2	81·7	132·4	9·2	74	N.	2	0·02	0·01
December	·949	87·4	68·3	10·4	76·9	127·2	11·6	69	N. N. E.	1	0·07	0·07

TABLE showing the Population and the Number of Births and the Birth-rate by Sex and Section in 1915.

1	2	3			4			5			6	7	8	9		
Ward.	Section.	Population according to the Census of 1911.			Number of Births registered.			Ratio of Births per 1,000 of Population.			Number of male births to 100 female births.	Excess of births over deaths per 1,000 of Population.	Excess of deaths over births per 1,000 of Population.	Mean ratio of births per 1,000 of Population during the previous 5 years.		
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.				Males.	Females.	Persons.
A	Upper Colaba	869	688	1,557	48	46	94	55·23	66·86	60·37	104·34	21·19	.....	41·36	65·30	49·97
	Middle and Lower Colaba	13,514	6,165	19,679	123	134	257	9·10	21·73	13·05	91·79	.....	9·29	10·52	21·40	13·98
	Fort, South	2,825	637	3,462	9	18	27	3·18	28·25	7·79	50·00	.....	32·92	3·80	12·04	5·33
	Fort, North	15,564	9,836	25,400	303	284	587	19·46	28·87	23·11	106·69	.....	·98	16·59	23·39	19·21
	Esplanade	13,544	5,217	17,761	130	128	258	10·36	24·53	14·52	101·56	.....	10·07	8·80	18·23	11·57
B	Mandvi	23,317	9,885	33,202	196	205	401	8·40	20·73	12·07	95·60	.....	11·34	9·78	18·99	12·75
	Chukla	15,768	8,463	24,231	241	217	458	15·28	25·64	18·90	111·05	.....	8·66	15·37	27·53	19·62
	Umarkhadi	28,491	17,188	45,679	599	549	1,148	21·02	31·94	25·13	109·10	.....	7·29	20·34	31·40	24·54
	Dongri	16,985	10,261	27,246	215	235	450	12·65	22·90	16·51	91·48	.....	1·72	17·86	25·31	20·79
C	Market	22,011	8,161	30,172	148	141	289	6·72	17·27	9·57	104·96	.....	8·12	7·23	18·31	10·32
	Dhobi Talao	24,670	14,014	38,684	423	394	817	17·14	28·11	21·11	107·36	.....	3·59	17·24	28·38	21·32
	Fanaswadi	18,125	9,278	27,403	312	271	583	17·21	29·20	21·27	115·12	.....	1·45	14·77	27·18	19·04
	Bhuleshwar	24,713	11,746	36,459	306	294	600	12·38	25·02	16·44	104·08	.....	8·06	12·22	23·24	15·81
	Khara Talao	15,052	7,927	22,979	253	259	512	16·80	32·67	22·28	97·68	.....	8·18	16·14	28·63	20·57
	Kumbharwada	17,908	9,795	27,703	278	272	550	15·52	27·76	19·85	102·20	.....	5·19	16·07	26·06	19·63
D	Khetwadi	19,850	12,087	31,937	372	316	688	18·74	26·14	21·54	117·72	.....	3·44	17·43	26·08	20·64
	Girgaum	19,156	11,623	30,779	331	331	662	17·27	28·47	21·50	100·00	.....	2·56	16·43	25·88	20·02
	Chowpati	7,088	4,309	11,397	180	139	269	18·34	32·25	23·60	93·52	2·19	.....	14·67	24·43	18·42
	Walkeshwar	6,883	3,757	10,640	129	97	226	18·74	25·81	21·24	132·98	.....	·28	15·00	26·47	19·00
	Mahalakshmi	16,608	9,694	26,302	331	289	620	19·93	29·81	23·57	114·53	1·29	.....	16·90	28·40	21·17
E	Mazagon	19,398	10,677	30,075	398	368	766	20·51	34·46	25·46	108·15	·03	.....	19·72	33·39	24·70
	Tarwadi	18,141	10,283	28,424	396	464	860	21·82	45·13	30·25	85·34	.....	7·56	22·63	43·94	30·39
	2nd Nagpada	13,321	8,379	21,700	254	237	491	19·06	28·28	22·62	107·17	.....	10·46	21·01	39·93	24·49
	Kamathipura	22,523	14,228	36,751	427	391	818	18·95	27·48	22·25	109·20	.....	8·57	18·70	27·39	22·15
	Tardeo	17,241	10,517	27,758	336	301	637	19·48	28·62	22·94	111·62	.....	3·02	21·09	39·49	24·34
	Byculla	47,672	27,676	75,348	965	867	1,832	20·24	31·32	24·31	111·30	.....	2·64	24·08	40·75	30·22
	1st Nagpada	4,183	2,232	6,414	90	91	181	21·52	40·77	28·21	98·90	4·52	.....	19·24	33·41	24·14
F	Parel	28,858	16,616	45,474	488	388	876	16·91	23·35	19·26	125·77	.....	·96	18·72	30·12	23·96
	Sewri	11,841	7,226	19,067	230	206	436	19·42	28·50	22·86	111·65	3·88	.....	19·81	30·08	23·61
	Sion	18,463	12,217	30,680	409	404	813	22·15	33·06	26·49	101·23	2·44	.....	22·91	32·86	26·88
G	Mahim	18,271	12,221	30,492	430	482	912	23·51	39·44	29·90	89·21	3·31	.....	24·86	37·26	29·87
	Worli	58,473	31,138	89,611	983	951	1,934	16·81	30·54	21·58	103·36	.....	1·11	17·05	29·24	21·63
	Harbour, Docks, Railways and Homeless	39,963	5,016	44,979	.....	.....	.....	.....	.....	.....	.....	.....	2·49	·02	.....	·02
	Total	640,288	339,157	979,445	10,283	9,769	20,052	16·05	28·80	20·47	105·26	.....	3·70	16·43	29·03	20·86

TABLE of Deaths and the Death-rate from some of the Principal Diseases by Sections in 1915.

1	2	3	4	5			6			7	8														9		
Ward.	SECTION.	Area in square miles.	Average Population per square mile calculated on the Census Population of 1911.	Population by the Census of 1911.			Number of deaths registered.			Number of deaths of males to every 100 deaths amongst females.	Death-rate per 1,000 of Population.														Mean ratio of deaths per 1,000 of Population during the previous 5 years.		
																							All Causes.					
				Males.	Females.	Total.	Males.	Females.	Total.		Cholera.	Small-pox.	Measles.	Plague.	Malaria.	Enteric.	Other Fevers.	Diarrhœa and Dysentery.	Tuberculosis.	Phthisis.	Other Respiratory Diseases.	Injuries.	All other causes.	Males.	Females.	Total.	Males.	Females.	Total.
	Upper Colaba ...	·22	7,077	869	688	1,557	45	16	61	281·25	...	...	...	...	·64	1·28	·64	3·85	...	3·21	7·70	6·42	15·41	51·78	23·25	39·17	38·18	48·97	41·97
	Middle and Lower Colaba	·45	43,731	13,514	6,165	19,679	266	174	440	152·87	...	·15	.05	4·11	·40	·30	1·42	1·21	1·92	1·11	6·80	·66	6·45	19·68	23·22	22·35	24·71	38·78	29·19
	Fort, South	·21	16,485	2,825	637	3,462	128	13	141	946·15	...	·57	...	·57	1·15	2·02	·28	5·48	2·68	6·98	5·77	7·22	7·79	45·30	20·40	40·72	14·16	22·59	15·73
	Fort, North	·21	120,952	15,564	9,836	25,400	338	274	612	123·35	...	·39	...	·74	·39	·31	2·63	1·77	·66	1·69	5·00	·66	9·50	21·71	27·85	24·09	35·64	42·76	38·42
	Esplanade	1·04	17,077	12,544	5,217	17,761	324	113	437	286·72	...	·28	...	·45	·78	·11	2·53	3·94	·39	2·70	4·39	1·35	7·55	25·82	21·65	24·60	39·96	36·87	39·05
	Mandvi	·26	127,700	23,317	9,885	33,202	442	336	778	131·54	·03	·03	·06	1·68	·39	·06	1·17	1·26	·30	1·86	7·77	·42	8·37	18·95	33·99	23·43	34·08	46·61	38·10
	Chukla	·08	302,887	15,768	8,463	24,231	345	318	663	108·49	...	·04	·08	·78	·24	·04	1·05	1·27	·33	2·31	9·24	·37	10·97	21·87	37·57	27·36	33·18	54·47	40·62
	Umarkhadi	·16	285,493	28,491	17,188	45,679	800	681	1,481	117·47	...	·15	·03	·94	·21	·06	2·16	2·69	·41	2·08	9·82	·52	13·85	28·07	39·62	32·42	42·22	54·77	47·01
	Dongri	·45	60,546	16,285	10,361	27,246	290	207	497	140·09	...	...	·03	·62	·11	...	1·06	·84	·11	·62	7·74	·47	6·60	17·07	20·17	18·24	38·59	45·44	40·52
	Market	·14	215,514	22,011	8,161	30,172	311	223	534	139·46	...	·33	·06	·72	·29	·09	1·52	1·19	·26	·92	5·36	·62	6·26	14·12	27·32	17·69	21·89	38·23	26·41
	Dhobi Talao	·16	241,775	24,670	14,014	38,684	517	439	956	117·76	·02	1·13	·23	·38	·31	·20	1·26	2·11	·33	1·16	6·56	·46	10·49	20·95	31·82	24·71	30·09	40·07	33·73
	Fanaswadi	·20	137,015	18,125	9,278	27,403	324	299	623	108·36	...	·58	·18	·54	·19	·14	1·42	1·93	·21	1·05	6·60	·36	9·56	17·87	32·22	22·73	24·00	37·43	28·62
	Bhuleshwar	·12	303,825	24,713	11,746	36,459	500	394	894	126·90	...	·05	·02	·76	·08	·02	1·28	2·52	·21	1·09	7·51	·38	10·53	20·23	33·54	24·52	30·29	49·14	36·47
	Khara Talao	·07	328,271	15,052	7,927	22,979	371	329	700	113·76	...	·13	...	·43	...	·08	1·74	2·74	·34	2·48	7·96	·56	13·96	24·64	41·50	30·46	36·82	57·38	44·04
	Kumbharwada	·07	395,757	17,908	9,795	27,703	372	322	694	115·52	...	·21	·07	·54	·03	...	1·29	1·66	·32	2·20	8·84	·54	9·31	20·77	32·87	25·05	31·39	47·53	37·15
	Khetwadi	·27	118,385	19,850	12,087	31,937	427	371	798	115·09	·06	·43	·03	·34	·15	·31	1·37	1·37	·56	2·06	7·29	·59	10·36	21·51	30·69	24·92	25·65	35·10	29·22
	Girgaum	·20	153,895	19,156	11,623	30,779	379	362	741	104·69	·06	1·00	·16	·25	·16	·22	1·59	·81	·38	1·91	9·79	·45	10·28	19·78	31·14	24·07	27·39	38·65	31·66
	Chowpati	·17	67,041	7,988	4,309	11,397	122	122	244	100·00	...	·87	...	·26	·17	·26	·87	·87	·87	1·40	4·39	·52	10·96	17·21	28·31	21·40	22·70	29·10	25·07
	Walkeshwar	·85	12,517	6,833	3,757	10,640	125	106	229	116·03	...	·18	...	·18	·09	...	·28	1·50	·37	1·50	6·29	·65	10·43	17·87	28·21	21·52	17·50	24·39	19·91
	Mahalakshmi	1·00	26,302	16,608	9,694	26,302	323	263	586	122·81	·03	·72	·03	1·36	·19	·22	1·06	1·93	·19	1·63	5·24	·30	9·31	19·44	27·13	22·27	24·31	33·79	27·83
	Mazagon	·96	31,328	19,398	10,677	30,075	436	329	765	132·52	...	·13	...	·43	·29	·09	5·15	3·95	·13	·23	6·38	·63	7·98	22·47	30·81	25·43	35·49	48·09	40·08
	Tarwadi	·75	37,898	18,141	10,283	28,424	644	431	1,075	149·41	...	·81	·03	·28	·63	·10	4·92	5·08	·77	1·65	8·02	2·46	13·58	35·49	41·91	37·82	62·01	62·28	55·79
	2nd Nagpada	·05	434,000	13,321	8,379	21,700	393	325	718	120·92	...	·55	...	·13	·09	·04	2·44	2·44	·69	2·02	9·72	·59	14·37	29·50	38·78	33·08	39·54	59·39	47·32
	Kamathipura	·10	867,510	23,623	14,228	36,751	559	574	1,133	97·38	·02	·76	·02	·43	·08	·02	2·69	2·91	·48	4·21	8·46	·51	10·33	24·81	40·34	30·82	39·52	55·95	45·99
	Tardeo	·36	77,105	17,241	10,517	27,758	392	329	721	119·14	·03	·25	·07	·57	·14	·21	1·65	2·81	·18	2·08	7·45	·50	9·97	22·73	31·28	25·97	38·22	45·26	37·85
	Byculla	·80	94,185	41,672	27,676	75,348	1,040	991	2,031	104·94	...	·54	·14	·21	·18	·05	1·15	3·07	·29	·84	8·54	·37	11·51	24·95	35·80	26·96	35·31	52·93	41·80
	1st Nagpada	·05	128,380	4,182	2,232	6,414	75	77	152	97·40	...	·31	·31	·15	...	·31	1·09	2·18	·15	·46	7·01	1·40	10·28	17·93	34·49	23·69	39·79	40·86	33·45
	Parel	·86	52,876	28,858	16,616	45,474	525	395	920	132·91	·02	·17	...	·15	·35	·04	2·39	1·97	·21	·59	6·13	·56	7·65	18·19	28·77	20·23	28·05	39·87	32·42
	Sewri	·77	24,762	11,841	7,226	19,067	192	170	362	112·94	·05	·41	...	·31	·20	...	2·20	1·94	·15	·15	6·29	·57	6·66	16·21	28·66	18·98	29·46	40·15	33·60
	Sion	6·66	4,606	18,463	12,217	30,680	402	336	738	119·64	...	·42	·09	·16	·26	·13	1·72	2·54	·09	·84	6·38	·61	10·75	21·77	27·50	24·05	29·92	38·09	33·18
	Mahim	2·01	15,170	18,271	12,221	30,492	431	380	811	113·42	·03	·09	·03	1·27	·13	·09	1·44	4·09	·22	·88	7·90	·88	9·47	23·58	31·09	26·59	30·50	40·41	34·50
	Worli	2·84	31,555	58,473	13,138	89,611	1,074	960	2,034	111·87	·02	·33	·17	·64	·08	·03	2·13	2·28	·12	1·26	6·49	·43	8·65	18·36	73·07	22·69	27·02	41·69	32·24
	Harbour, Docks, Railways, and Homeless ...	...	...	39,963	5,016	44,979	110	2	112	5,500·00	·04	·20	...	·02	·06	·04	·17	·28	·04	·15	·35	·51	·57	2·75	·39	3·49	3·19	1·54	3·01
	Total ...	22·55	43,453	640,288	339,157	979,445	13,020	10,661	23,681	122·12	·01	·36	·07	·61	·21	·11	1·81	2·24	·30	1·44	6·91	·61	9·45	20·33	31·43	24·17	30·22	44·48	35·23

TABLE of Deaths registered by Section and Month in 1915.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total No. of deaths registered in 1915.
A	Upper Colaba	5	6	6	5	6	1	6	6	6	5	4	5	61
	Middle and Lower Colaba	23	28	34	42	45	27	48	33	40	38	46	26	440
	Fort, South	9	6	5	12	17	16	8	15	16	8	13	16	141
	Fort, North	42	60	48	45	58	55	49	40	46	66	53	50	612
	Esplanade	50	35	37	32	27	33	28	40	38	33	35	49	427
B	Mandvi	56	40	66	85	74	45	54	59	66	74	90	75	778
	Chukla	42	52	59	75	65	57	55	49	43	49	63	54	663
	Umarkhadi	116	101	124	134	152	110	110	136	127	124	119	128	1,481
	Dongri	37	33	37	66	65	35	32	54	28	35	38	37	497
C	Market	40	29	45	46	49	35	35	47	46	68	42	52	534
	Dhobi Talao	85	70	101	82	88	78	57	87	73	87	82	66	956
	Fanaswadi	48	40	63	57	62	47	48	46	62	50	45	55	623
	Bhuleshwar	79	53	65	82	92	74	64	67	86	64	80	88	894
	Khara Talao	62	57	50	62	61	51	58	66	58	72	50	53	700
	Kumbharwada	53	51	57	71	54	50	58	56	53	73	59	59	694
D	Khetwadi	70	50	82	68	74	59	52	72	77	65	62	67	798
	Girgaum	58	66	76	78	60	55	64	52	61	60	57	54	741
	Chowpati	22	23	21	15	19	27	19	19	18	29	17	15	244
	Walkeshwar	20	14	23	18	21	10	16	31	17	20	20	19	229
	Mahalakshmi	41	52	49	69	47	45	33	48	50	44	54	54	586
E	Mazagon	51	60	61	60	61	55	60	65	68	73	66	85	765
	Tarwadi	78	79	108	86	90	77	86	98	97	88	97	91	1,075
	2nd Nagpada	52	53	61	60	71	62	56	61	52	72	41	77	718
	Kamathipura	100	70	99	88	102	69	88	93	118	95	94	117	1,133
	Tardeo	52	46	59	72	60	56	51	73	58	71	51	68	721
	Byculla	178	142	152	171	156	149	162	164	190	174	191	202	2,031
	1st Nagpada	7	11	15	21	9	15	13	13	8	12	11	17	152
F	Parel	41	48	72	74	85	63	62	93	98	85	91	108	920
	Sewri	36	27	28	29	21	25	25	32	30	47	23	39	362
	Sion	55	57	58	60	48	48	57	65	80	70	72	68	738
G	Mahim	68	66	80	60	54	62	72	54	76	64	74	81	811
	Worli	121	114	148	173	182	141	153	214	205	183	188	212	2,034
	Harbour, Docks, Railways and Homeless...	20	13	12	11	7	9	3	8	8	6	7	8	112
	Total ...	1,811	1,652	2,001	2,109	2,082	1,741	1,782	2,056	2,099	2,108	2,085	2,205	23,681

TABLE of Deaths registered from all Causes by Section and Age-Period in 1915.

1	2	3		4		5		6		7		8		9		10		11		12		13		14		15
Ward.	SECTION.	Under 1 year.		1 year and under 5 years.		5 years and under 10 years.		10 years and under 15 years.		15 years and under 20 years.		20 years and under 30 years.		30 years and under 40 years.		40 years and under 50 years.		50 years and under 60 years.		60 years and upwards.		Unspecified Age.		Total.		Total.
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
A	Upper Colaba ...	10	8	2	...	1	...	1	...	2	1	14	2	9	2	2	...	1	2	3	1	...	...	45	16	61
	Middle and Lower Colaba ...	44	46	17	19	7	7	12	11	24	15	73	21	36	18	23	8	18	10	12	19	...	...	266	174	440
	Fort, South ...	1	3	...	...	...	...	...	...	12	1	79	2	30	2	4	3	1	2	1	...	...	...	128	13	141
	Fort, North ...	83	72	26	28	5	5	6	6	26	12	52	44	38	29	37	22	20	18	36	38	...	...	338	274	612
	Esplanade ...	41	23	10	6	5	4	2	3	16	9	77	22	60	8	41	15	52	15	30	11	...	...	324	113	437
B	Mandvi ...	113	103	34	29	11	12	12	12	32	24	87	60	46	34	43	20	29	14	36	28	...	...	442	336	778
	Chukla ...	80	93	36	30	6	17	7	18	22	33	41	54	40	17	42	13	31	15	40	28	...	...	345	318	663
	Umarkhadi ...	243	163	59	83	23	24	22	32	35	71	138	108	71	62	74	33	67	38	68	57	...	...	800	681	1,481
	Dongri ...	86	90	29	25	8	6	5	5	23	9	72	12	25	14	15	12	16	17	11	17	...	...	290	207	497
C	Market ...	76	62	32	31	7	9	8	7	21	13	51	35	35	10	40	17	30	14	11	25	...	...	311	223	534
	Dhobi Talao ...	134	104	47	68	7	12	14	10	35	35	78	54	43	36	52	27	55	35	52	58	..	...	517	439	956
	Fanaswadi ...	92	64	29	47	10	7	8	12	16	24	41	59	32	19	36	13	32	20	27	34	1	...	324	299	623
	Bhuleshwar ...	115	92	44	45	11	13	10	14	31	35	69	76	76	31	49	29	43	16	52	42	...	...	500	394	894
	Khara Talao ...	99	80	27	38	12	14	8	15	24	29	74	65	56	29	27	13	25	17	39	29	...	...	371	329	700
	Kumbharwada ...	109	99	30	39	6	17	9	5	20	24	64	36	37	29	48	23	22	13	27	37	...	...	372	322	694
D	Khetwadi ...	102	83	45	43	10	11	6	12	18	27	53	58	58	43	51	22	42	26	42	46	...	...	427	371	798
	Girgaum ...	115	97	49	53	4	12	9	7	13	33	52	48	49	26	32	17	24	25	32	45	...	...	379	362	741
	Chowpati ...	29	34	13	8	2	5	2	8	8	10	15	17	20	14	9	8	9	4	16	14	...	...	122	122	244
	Walkeshwar ...	37	27	9	12	3	7	3	2	3	7	20	13	10	6	13	7	11	13	14	12	...	...	123	106	229
	Mahalakshmi ...	103	68	28	32	6	10	6	13	26	24	49	36	36	21	20	14	19	11	30	34	...	...	323	263	586
E	Mazagon ...	131	124	38	35	11	19	10	8	30	17	67	35	40	26	37	18	35	13	42	34	...	...	436	329	765
	Tarwadi ...	138	177	27	38	10	11	15	4	40	27	149	46	95	32	73	34	62	37	34	25	1	...	644	431	1,075
	2nd Nagpada ...	111	80	44	44	10	16	10	9	19	35	67	42	39	28	29	20	25	25	39	26	...	...	393	325	718
	Kamathipura ...	135	146	45	69	15	30	14	23	32	45	103	99	88	57	50	29	44	30	33	46	...	...	559	574	1,133
	Tardeo ...	101	97	51	42	12	15	14	18	24	20	55	33	42	26	40	17	20	22	33	39	...	...	392	329	721
	Byculla ...	387	312	124	145	36	40	19	20	57	66	134	154	114	73	66	41	73	54	80	86	...	...	1,040	991	2,031
	1st Nagpada ...	26	17	6	12	...	2	1	4	3	6	13	20	5	3	10	3	8	4	3	6	...	...	75	77	152
F	Parel ...	165	116	44	52	9	13	8	11	31	25	91	69	51	20	49	21	38	20	39	48	...	...	525	385	920
	Sewri ...	72	60	14	27	5	5	5	4	10	10	25	21	16	11	13	4	16	10	16	18	...	...	192	170	362
	Sion ...	107	113	44	50	14	14	8	10	21	18	56	53	53	19	34	6	31	23	29	30	...	...	402	336	738
G	Mahim ...	119	108	51	64	19	16	10	13	22	21	47	47	46	29	48	22	34	18	35	42	...	...	431	380	811
	Worli ...	352	333	132	130	24	31	23	28	61	61	154	143	109	58	73	43	58	47	88	86	...	...	1,074	960	2,034
	Harbour, Docks, Railways and Homeless	2	..	...	1	...	...	2	...	11	...	43	1	23	...	13	...	6	...	4	...	2	...	110	2	112
	Total ...	3,508	3,094	1,190	1,345	309	414	289	344	767	786	2,203	1,385	1,512	832	1,198	574	997	625	1,043	1,062	4	...	12,020	10,661	...
	Persons ...	6,602		2,535		723		633		1,553		3,788		2,344		1,772		1,622		2,105		4		23,681		...
	Percentage to Total Mortality ...	27·87		10·70		3·05		2·67		6·55		15·99		9·89		7·48		6·84		8·88		·01		100·00		...

TABLE showing the Population, the Number of Deaths from all Causes and the

1	2	3													
		Population by the Census of 1911.													
Ward.	SECTION.	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of other Castes.	Hindus, low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Other and Unknown Castes.	Total.
	Upper Colaba ...	15	68	...	...	521	533	98	104	4	113	45	56	...	1,557
A	Middle and Lower Colaba.	149	169	69	2	11,094	1,690	1,190	1,085	170	1,760	223	2,037	41	19,679
	Fort, South ...	...	31	7	...	1,460	247	166	96	93	821	55	486	...	3,462
	Fort, North ...	800	1,075	2	1,497	7,779	1,358	1,410	9,692	12	1,378	155	167	45	25,400
	Esplanade ...	1	270	...	32	6,004	5,556	3,019	503	55	967	248	1,062	44	17,761
B	Mandvi ...	2,562	2,387	16	1,059	20,360	194	5,217	9	541	186	8	20	43	33,202
	Chukla ...	765	690	...	160	7,383	34	15,082	74	...	34	...	9	...	24,231
	Umarkhadi ...	1,158	351	8	60	11,916	788	29,280	38	1,371	640	39	22	8	45,679
	Dongri ...	351	250	38	8	22,092	1,222	2,571	24	436	166	13	72	3	27,246
C	Market ...	4,489	3,514	91	2,112	14,032	75	3,415	1,206	...	1,111	62	28	37	30,172
	Dhobi Talao ...	881	2,547	52	1,166	16,226	1,308	1,050	8,619	1	6,461	98	263	12	38,684
	Pavaswadi ...	520	5,104	28	46	16,162	796	502	2,005	2	2,181	7	41	9	27,403
	Bhuleshwar ...	1,949	5,084	...	79	17,194	29	11,377	715	...	28	1	3	...	36,459
	Khara Talao ...	471	173	26	6	5,967	158	15,938	171	28	40	1	...	...	22,979
	Kumbharwada ...	391	847	161	33	23,016	38	2,822	326	3	65	1	...	...	27,703
D	Khetwadi ...	167	3,443	49	111	15,727	245	3,648	7,326	36	1,087	25	62	16	31,937
	Girgaum ...	378	10,079	36	32	18,184	48	295	582	1	1,010	74	60	...	30,779
	Chowpati ...	191	2,266	...	45	7,224	2	331	859	5	444	4	25	1	11,397
	Walkeshwar ...	275	1,023	14	170	5,288	269	677	1,117	14	831	27	271	64	10,640
	Mahalakshmi ...	34	1,933	18	119	17,191	694	887	4,049	16	1,293	2	131	...	26,302
E	Mazagon ...	237	411	7	...	18,487	1,235	4,562	1,243	35	3,114	292	413	39	30,075
	Tarwadi ...	200	547	20	6	18,914	1,502	3,080	990	600	1,219	667	678	1	28,424
	2nd Nagpada ...	67	66	...	...	5,309	905	14,690	82	874	196	1	7	3	21,700
	Kamathipura ...	364	825	75	19	21,268	5,432	7,742	174	137	528	64	51	72	36,751
	Tardeo ...	246	810	8	4	12,652	4,209	4,852	3,815	72	824	96	29	74	27,758
	Byculla ...	783	1,348	30	3	42,470	7,831	16,556	853	906	2,720	904	961	3	75,348
	1st Nagpada ...	120	347	4	...	2,796	50	1,233	46	808	606	282	121	1	6,414
F	Parel ...	592	1,356	113	28	36,596	1,785	2,192	1,681	26	829	89	111	6	45,474
	Sewri ...	201	212	19	...	16,172	919	992	42	7	423	18	62	...	19,067
	Sion ...	459	1,849	30	238	19,459	5,085	2,412	728	21	2,191	92	114	2	30,680
G	Mahim ...	410	1,230	54	31	20,498	927	3,609	550	40	2,913	108	126	2	30,492
	Worli ...	915	2,374	189	46	65,875	8,666	4,859	1,918	683	3,393	294	399	...	89,611
	Harbour, Docks, Railways, and Homeless.	319	977	15	68	21,276	2,405	13,560	229	30	1,706	198	4,008	188	44,979
	Total ...	20,460	53,656	1,179	7,780	547,192	54,235	179,346	50,931	6,597	41,273	4,188	11,894	714	979,445

Death-Rate per 1,000 of Population by Caste and Section in 1915.

Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of other Castes.	Hindus, low Caste.	Musalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Other and unknown Castes.	Total.	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of other Castes.	Hindus, low Caste.	Musalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Other and unknown Castes.	Total.
				4										5													
Number of Deaths from all Causes excluding Still-born.														Death-rate per 1,000 of Population amongst:—													
...	...	...	...	8	15	7	...	...	4	...	27	..	61	.....	...	...	...	13·35	28·14	7·14·38	...	...	35·39	...	482·14	.....	39·17
4	2	1	...	244	74	35	12	2	31	3	30	1	440	26·84	17·75	14·49	...	21·99	43·78	29·41	11·05	11·76	17·61	13·45	14·72	21·39	22·35
..	2	...	...	78	3	36	1	...	10	4	7	...	141	.....	64·51	...	...	53·42	13·14	216·86	10·41	...	19·18	72·72	14·40	.....	40·72
42	20	...	38	166	68	62	184	...	32	4	5	1	612	52·50	18·60	...	...	21·33	59·07	36·87	189·84	...	23·22	25·80	29·94	22·23	24·09
1	5	...	...	151	86	134	6	1	25	9	18	1	437	1,000·0	18·51	...	...	25·14	15·47	44·38	11·92	18·18	25·85	30·29	16·94	22·72	24·60
99	67	...	42	387	10	157	...	9	6	...	...	1	778	38·61	28·06	...	20·31	19·00	31·54	30·09	...	16·03	32·25	...	...	22·25	23·43
38	7	...	8	108	...	499	...	...	2	...	...	...	663	49·67	19·14	...	50·19	14·42	...	33·68	...	...	38·82	...	...	.....	27·36
24	9	1	...	285	83	1,909	...	40	23	...	1	4	1,481	20·72	25·64	125·00	...	23·91	105·23	34·46	...	29·17	35·93	...	45·45	500·00	32·42
12	5	...	...	267	132	70	...	4	4	...	1	2	497	34·18	20·00	...	...	12·08	108·01	27·22	...	9·17	24·09	...	13·88	666·66	18·24
150	45	...	29	194	3	77	14	...	17	1	1	...	534	33·41	13·69	...•	13·78	13·82	40·00	34·51	11·60•	...	15·30	16·12	25·71	.....	17·69
62	44	1	45	369	72	32	155	...	176	...	...	...	956	70·37	17·27	19·23	38·59	22·74	55·04	30·47	17·98	...	37·24	...	...	.....	24·71
36	124	...	2	345	35	8	31	...	42	...	...	...	623	69·23	24·29	...	43·47	21·34	43·26	159·36	15·46	...	19·25	...	...	.....	22·73
139	71	...	3	275	15	383	8	...	...	...	...	...	894	71·31	13·96	...	37·97	15·99	517·24	33·66	11·18	...	...	...	...	.....	24·32
14	5	...	...	103	47	524	2	2	1	...	...	2	700	29·72	28·90	...	...	17·36	297·46	32·87	11·69	71·42	25·00	...	...	.....	30·46
23	16	16	1	513	39	81	1	...	2	...	...	2	694	58·82	18·82	99·37	50·30	22·28	...	28·70	3·06	...	30·76	...	...	.....	25·05
33	72	1	2	380	5	91	186	...	23	...	...	3	798	197·60	20·91	20·40	18·91	24·16	20·40	24·97	25·38	...	32·99	...	...	187·50	24·98
36	205	2	1	453	1	12	8	...	23	...	...	...	741	92·78	20·33	55·55	31·25	24·91	20·83	40·67	19·74	...	22·77	...	...	.....	24·07
11	16	...	5	170	2	7	21	...	9	...	1	2	244	57·59	7·06	...	111·11	23·53	100·00	21·14	24·44	...	20·27	...	40·00	2000·00	21·40
19	20	1	7	125	6	11	30	...	7	...	...	...	229	62·69	19·55	71·42	41·17	23·63	32·30	16·24	26·85	...	8·42	.	...	.....	21·52
6	25	...	6	335	123	27	66	...	8	...	...	...	586	176·47	12·93	...	50·42	18·90	177·23	30·43	16·30	...	6·16	...	...	.....	22·27
14	6	1	...	403	77	149	25	1	73	7	7	2	765	59·07	14·59	142·85	...	21·79	62·34	32·66	30·11	28·57	23·44	23·97	16·94	51·28	25·43
10	9	...	...	581	53	189	20	14	164	11	17	7	1,075	20·00	16·45	...	...	30·71	35·28	61·36	20·20	23·38	154·33	16·49	25·07	7000·00	37·82
6	2	...	...	69	135	484	3	6	6	1	2	2	716	89·55	30·30	...	...	12·99	149·17	32·94	36·58	16·04	30·41	100·00	285·71	666·66	33·08
14	17	61	...	511	285	213	...	4	21	4	1	2	1,133	38·46	20·60	813·33	...	24·02	83·46	27·61	...	29·19	39·77	62·50	19·60	27·77	30·82
9	11	...	...	252	190	139	81	...	34	2	2	...	721	36·58	13·58	...	..	19·91	43·14	26·79	21·23	...	41·26	20·83	68·96	.....	25·97
24	22	4	...	828	345	600	18	24	115	34	15	1	2,031	30·65	16·32	133·33	...	19·49	44·65	36·24	21·60	26·49	42·27	37·61	15·60	333·33	26·95
2	7	...	...	47	10	39	...	23	18	5	1	...	152	16·66	20·17	...	...	16·89	200·00	31·63	...	28·46	29·70	17·73	8·25	.....	23·69
9	20	1	...	661	103	63	30	3	26	2	...	2	920	15·20	14·74	8·84	...	18·06	47·70	28·74	17·84	115·38	31·56	22·47	...	333·33	20·23
7	7	•	...	284	31	23	...	...	5	2	1	...	362	34·82	33·01	...	...	17·56	33·73	25·20	...	...	11·82	111·11	16·12	.....	18·98
18	23	2	6	411	107	78	11	...	76	4	1	...	738	39·21	11·89	66·66	20·21	21·12	34·57	32·33	15·10	...	35·60	43·47	8·77	.....	24·05
6	23	...	1	481	149	126	19	...	78	1	6	...	811	14·63	18·69	...	32·25	19·55	160·73	34·91	34·54	...	26·77	9·25	48·00	.....	26·59
22	61	19	...	1,337	444	123	27	14	74	8	4	1	2,034	24·04	25·69	100·52	...	18·77	51·23	25·31	14·07	20·49	21·80	27·21	10·02	.....	22·69
...	1	...	...	39	2	51	...	...	4	...	11	3	112	NIL	1·02	...	...	1·83	·83	3·76	...	...	2·34	...	35·55	13·95	2·49
890	972	111	196	10,670	2,750	5,531	959	147	1,143	102	162	39	23,621	43·49	18·11	94·14	25·19	19·49	50·70	30·83	18·81	24·28	27·69	24·35	13·62	54·62	24·17

TABLE of Deaths registered from CHOLERA by Section and Month in 1915.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of Population. Males.	Females.	Total.	Mean Ratio per 1,000 of Population during the previous 5 years.
A	Upper Colaba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·49
	Middle and Lower Colaba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·42
	Fort, South	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·28
	Fort, North	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·49
	Esplanade	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·60
B	Mandvi	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	·03	1·11
	Chukla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·79
	Umarkhadi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·39
	Dongri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·02
C	Market	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·32
	Dhobi Talao	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	·02	·62
	Fanaswadi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·57
	Bhuleshwar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·35
	Khara Talao	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·50
	Kumbharwada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·59
D	Khetwadi	...	...	...	...	...	1	...	1	...	...	...	...	...	2	...	...	·06	·34
	Girgaum	...	...	...	1	...	...	...	1	...	...	...	...	...	2	...	...	·06	·56
	Chowpati	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·25
	Walkeshwar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·27
	Mahalakshmi	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	·03	·30
E	Mazagon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·46
	Tarwadi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·60
	2nd Nagpada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·27
	Kamathipura	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	·02	·32
	Tardeo	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	·03	·28
	Byculla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·43
	1st Nagpada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·17
F	Parel	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	·02	·26
	Sewri	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	·05	·27
	Sion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·35
G	Mahim	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	·03	·26
	Worli	...	...	1	...	...	1	...	...	...	...	...	...	...	2	...	...	·02	·24
	Harbour, Docks, Railways and Homeless	...	...	2	...	...	...	...	...	...	...	...	...	...	2	...	...	·04	·11
	Total	...	...	3	3	...	3	2	5	...	...	...	...	12	4	16	·01	·01	·01	·48

TABLE of Deaths registered from SMALL-POX by Section and Month in 1915.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.			Death Ratio per 1,000 of Population.			Mean Ratio per 1,000 of Population during the previous 5 years.
														Males.	Females.	Total.	Males.	Females.	Total.	
A	Upper Colaba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Middle and Lower Colaba	...	...	1	1	1	...	...	...	...	...	...	...	...	...	3	...	...	·15	·31
	Fort, South	1	1	...	...	...	...	...	...	...	..	...	...	...	...	2	...	...	·57	·28
	Fort, North	...	...	1	3	1	1	1	1	1	...	...	1	...	...	10	...	...	·39	·42
	Esplanade	...	...	4	...	...	...	...	...	1	...	...	...	...	...	5	...	...	·28	·42
B	Mandvi	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	·03	·35
	Chukla	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	·04	·19
	Umarkhadi	2	...	1	1	2	1	...	...	...	...	...	...	...	...	7	...	...	·15	·33
	Dongri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·38
C	Market	...	1	3	1	3	4	2	...	...	...	...	...	...	...	10	...	...	·33	·48
	Dhobi Talao	4	1	9	9	13	4	1	...	2	...	...	1	...	...	41	...	...	1·13	·86
	Fanaswadi	1	1	2	4	3	2	...	1	...	1	...	1	...	...	16	...	...	·58	·64
	Bhuleshwar	...	...	...	...	1	1	...	...	...	...	...	...	...	...	2	...	...	·05	·27
	Khara Talao	...	...	...	2	1	...	...	...	...	...	...	...	...	...	3	...	...	·13	·33
	Kumbharwada	...	...	3	2	1	...	...	...	...	...	...	...	...	...	6	...	...	·21	·52
D	Khetwadi	1	...	...	6	7	...	...	...	...	...	...	...	...	...	14	...	...	·43	·52
	Girgaum	1	6	6	9	8	3	2	...	...	...	...	1	...	...	31	...	...	1·00	·89
	Chowpati	...	1	3	3	3	...	...	...	...	...	...	...	...	...	10	...	...	·87	·51
	Walkeshwar	1	...	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	·18	·18
	Mahalakshmi	...	1	3	...	1	3	...	3	3	2	2	1	...	...	19	...	...	·72	·46
E	Mazagon	...	1	...	...	1	1	...	...	1	...	...	...	...	...	4	...	...	·13	·89
	Tarwadi	...	...	1	1	2	1	...	...	1	...	...	3	...	...	9	...	...	·31	·89
	2nd Nagpada	...	1	4	...	1	1	...	...	...	1	...	3	...	...	11	...	...	·50	·41
	Kamathipura	1	...	2	4	6	2	1	1	...	...	4	7	...	...	28	...	...	·76	·73
	Tardeo	...	...	1	1	1	...	...	...	1	...	1	2	...	...	7	...	...	·35	·64
	Byculla	...	1	1	3	9	8	1	5	1	2	3	7	...	...	41	...	...	·54	1·29
	1st Nagpada	...	1	...	...	...	...	...	...	...	...	...	1	...	...	2	...	...	·31	·51
F	Parel	...	...	...	2	2	2	...	1	1	...	...	...	...	...	8	...	..	·17	·78
	Sewri	1	...	...	...	...	1	1	1	...	...	...	4	...	...	8	...	...	·41	·43
	Sion	...	...	...	...	...	1	6	3	2	1	...	...	...	...	13	...	...	·42	·48
G	Mahim	...	...	...	1	...	...	1	...	1	...	...	...	...	..	3	...	...	·09	·42
	Worli	...	...	3	3	8	4	4	2	1	...	...	5	...	...	30	...	...	·33	·77
	Harbour, Docks, Railways and Homeless	3	...	2	3	...	1	...	...	...	...	...	...	...	...	9	...	...	·20	·21
	Total	17	16	51	60	70	37	20	18	16	7	10	37	214	145	359	·33	·42	·36	·59

TABLE of Deaths registered from MEASLES by Section and Month in 1915.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of Population. Males.	Females.	Total.	Mean Ratio per 1,000 of Population during the previous 5 years.
A	Upper Colaba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Middle and Lower Colaba	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	·05	·05
	Fort, South	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort, North	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·15
	Esplanade	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·06
B	Mandvi	...	1	...	...	...	...	...	...	...	...	1	...	...	2	2	...	...	·06	·28
	Chukla	...	...	...	1	1	...	...	...	...	...	...	...	...	2	2	...	...	·08	·27
	Umarkhadi	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	...	·02	·31
	Dongri	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...	·03	·67
C	Market	...	...	1	...	1	...	...	...	...	...	...	...	...	2	2	...	...	·06	·12
	Dhobi Talao	1	3	1	3	...	...	...	...	...	1	...	...	...	9	9	...	...	·23	·33
	Fanaswadi	...	...	1	2	...	2	...	...	...	...	...	...	...	5	5	...	...	·18	·46
	Bhuleshwar	...	...	...	1	...	...	...	...	...	...	...	...	...	1	1	...	...	·02	·32
	Khara Talao	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·33
	Kumbharwada	...	...	1	...	...	...	1	...	...	...	...	...	...	2	2	...	...	·07	·55
D	Khetwadi	...	...	...	...	...	...	1	...	...	...	...	...	...	1	1	...	...	·03	·24
	Girgaum	1	1	2	...	1	...	...	...	...	...	...	...	...	5	5	...	...	·16	·29
	Chowpati	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·08
	Walkeshwar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·09
	Mahalakshmi	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	...	·03	·38
E	Mazagon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·28
	Tarwadi	...	...	...	1	...	...	...	...	...	...	...	...	...	1	1	...	...	·03	·35
	2nd Nagpada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·32
	Kamathipura	...	...	...	...	...	...	1	...	...	...	...	...	...	1	1	...	...	·02	·27
	Tardeo	1	...	1	...	...	...	...	...	...	...	...	...	...	2	2	...	...	·07	·35
	Byculla	...	3	1	2	...	...	...	...	1	1	1	2	...	11	11	...	...	·14	·26
	1st Nagpada	...	...	...	1	...	1	...	...	...	...	...	...	...	3	3	...	...	·31	·17
F	Parel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·39
	Sewri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·21
	Sion	...	...	...	...	...	...	...	1	...	...	2	...	...	3	3	...	...	·09	·32
G	Mahim	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	...	·03	·35
	Worli	...	2	...	...	...	...	2	1	3	4	2	2	...	16	16	...	...	.17	·59
	Harbour, Docks, Railways and Homeless	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	3	10	11	12	3	3	5	2	4	6	6	5	41	29	70	·06	·08	·07	·31

TABLE of Deaths registered from PLAGUE by Section and Month in 1915.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of Population. Males.	Females.	Total.	Mean Ratio per 1,000 of Population during the previous 5 years.
A	Upper Colaba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·49
	Middle and Lower Colaba	...	...	6	6	11	6	19	1	7	4	12	9	...	...	81	...	...	4·11	5·15
	Fort, South	...	...	...	...	1	...	1	...	...	...	...	...	...	...	2	...	...	·57	2·52
	Fort, North	...	...	3	7	3	2	1	...	1	2	...	...	...	...	19	...	...	·74	3·41
	Esplanade	...	...	1	3	4	...	...	...	...	...	...	...	...	...	8	...	...	·45	1·46
B	Mandvi	...	...	5	24	12	3	2	1	2	1	2	4	...	...	56	...	...	1·68	3·50
	Chukla	...	1	...	8	5	2	1	1	1	...	...	...	...	...	19	...	...	·78	2·65
	Umarkhadi	...	...	5	9	16	3	1	3	2	1	2	1	...	...	43	...	...	·94	5·53
	Dongri	...	...	1	5	5	...	...	5	...	1	...	...	...	...	17	...	...	·62	3·70
C	Market	1	...	3	4	5	2	...	2	1	3	...	1	...	...	22	...	...	·72	2·85
	Dhobi Talao	...	...	2	1	5	...	1	...	4	...	1	1	...	...	15	...	...	·38	3·47
	Panaswadi	...	1	1	3	6	1	1	...	...	...	2	...	...	...	15	...	...	·54	3·34
	Bhuleshwar	...	2	2	6	9	2	3	...	3	1	...	..	...	...	28	...	...	·76	2·98
	Khara Talao	...	...	2	5	3	...	...	...	...	.	...	...	...	...	10	...	...	·43	3·19
	Kumbharwada	1	1	2	6	5	...	...	...	...	...	...	...	...	...	15	...	...	·54	3·44
D	Khetwadi	...	...	3	...	...	1	...	4	1	2	...	...	...	...	11	...	...	·34	1·64
	Girgaum	...	...	2	1	...	1	1	1	1	...	...	1	...	...	8	...	...	·25	1·88
	Chowpati	...	...	1	...	...	1	1	...	...	...	...	...	...	...	3	...	...	·26	1·79
	Walkeshwar	...	...	...	1	...	...	...	...	...	1	...	...	...	...	2	...	...	·18	1·17
	Mahalakshmi	1	1	9	17	8	...	...	...	...	...	...	...	...	...	36	...	...	1·36	2·96
E	Mazagon	...	1	...	2	2	1	5	2	...	...	...	...	...	...	13	...	...	·48	4·39
	Parwadi	...	...	3	2	1	1	...	1	...	...	...	...	...	...	8	...	...	·28	3·60
	2nd Nagpada	...	...	...	2	...	...	...	...	1	...	...	...	...	...	3	...	...	·13	1·65
	Kamathipura	1	...	1	5	3	3	...	3	...	...	...	1	...	...	16	...	...	·43	2·12
	Pardeo...	1	...	1	5	5	2	...	2	...	...	...	...	...	...	16	...	...	·57	1·86
	Byculla	1	...	...	5	3	...	2	2	1	...	...	2	...	...	16	...	...	·21	3·29
	1st Nagpada	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	·15	1·55
F	Parel	...	...	...	1	1	...	1	...	...	2	1	1	...	...	7	...	...	·15	3·62
	Sewri	...	...	...	...	...	...	...	1	1	3	1	...	...	...	6	...	...	·31	4·06
	Sion	...	1	1	...	...	...	...	1	1	...	...	1	...	...	5	...	...	·16	3·06
G	Mahim	...	5	13	10	6	1	...	...	...	...	2	2	...	...	39	...	...	1·27	4·21
	Worli	1	4	9	21	11	1	1	1	1	3	1	5	...	...	58	...	...	·64	4·17
	Harbour, Docks, Railways and Homeless	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	·02	·07
	Total ..	7	17	77	159	131	32	41	31	28	23	24	29	441	158	599	·68	·46	·61	5·04

TABLE of Deaths registered from MALARIA by Section and Month in 1915.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of Population. Males.	Females.	Total.	Mean Ratio per 1,000 of Population during the previous 5 years.
A	Upper Colaba	...	2	...	1	...	...	...	1	2	...	...	1	1	1	...	...	...	1	...	...	·64	·99
	Middle and Lower Colaba	...	...	1	...	...	...	2	..	...	1	1	1	...	...	8	...	...	·40	·58
	Fort, South	...	...	1	1	...	...	...	...	...	...	3	...	...	...	4	...	...	1·15	·84
	Fort, North	...	...	...	2	...	1	2	...	...	1	4	...	...	...	10	...	...	·39	1·03
	Esplanade	...	3	2	1	1	1	...	2	...	1	2	1	...	...	14	...	...	·78	1·94
B	Mandvi	...	3	...	1	1	...	...	...	...	1	2	4	1	...	13	...	...	·39	·46
	Chukla	...	...	1	1	...	...	1	1	...	...	1	...	1	...	6	...	...	·24	·27
	Umarkhadi	...	...	1	...	1	1	2	1	...	1	1	2	...	...	10	...	...	·31	·55
	Dongri	...	...	1	...	...	...	...	...	...	...	1	...	1	...	3	...	...	·11	·81
C	Market	...	...	1	...	1	1	...	...	1	...	2	1	2	...	9	...	...	·29	·35
	Dhobi Talao	...	...	...	2	...	...	...	1	2	...	6	1	...	...	12	...	...	·31	·36
	Fanaswadi	...	1	...	...	1	...	...	...	...	1	...	...	...	...	3	...	...	·10	·14
	Bhuleshwar	...	1	...	...	...	...	...	...	...	1	...	1	...	...	3	...	...	·08	·24
	Khara Talao	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·33
	Kumbharwada	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	·03	·17
D	Khetwadi	...	...	...	...	...	1	...	...	...	2	...	2	...	...	5	...	...	·15	·24
	Girgaum	...	1	...	1	...	1	...	1	...	1	...	...	...	...	5	...	...	·16	·19
	Chowpati	...	1	...	...	...	...	...	...	...	1	...	...	...	...	2	...	...	·17	·25
	Walkeshwar	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	·09	·27
	Mahalakshmi	...	1	...	...	1	1	1	...	...	1	...	...	...	...	5	...	...	·19	·11
E	Mazagon	...	...	...	1	...	...	...	...	...	1	4	3	...	...	9	...	...	·29	·16
	Tarwadi	...	2	2	...	1	2	...	...	1	3	5	2	...	...	18	...	...	·63	·67
	2nd Nagpada	...	...	...	...	...	...	...	...	...	...	1	1	...	...	2	...	...	·09	·18
	Kamathipura	...	...	...	...	...	...	...	...	2	...	...	1	...	...	3	...	...	·08	·05
	Tardeo	...	1	...	...	...	...	...	1	..	1	...	1	...	...	4	...	...	·14	·17
	Byculla	...	...	...	...	...	1	1	...	...	1	7	4	...	...	14	...	..	·18	·11
	1st Nagpada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·17
F	Parel	...	...	...	1	1	1	1	...	1	3	5	3	...	...	16	...	...	·35	·15
	Sewri	...	...	...	...	...	...	...	...	...	...	2	2	...	...	4	...	...	·20	·05
	Sion	...	1	...	1	...	...	...	...	...	...	4	2	...	...	8	...	...	·26	·13
G	Mahim	...	1	...	1	...	...	...	1	...	1	...	...	...	...	4	...	...	·13	·09
	Worli	...	...	...	...	...	1	1	..	2	2	...	2	...	...	8	...	...	·08	·05
	Harbour, Docks, Railways and Homeless	...	1	...	...	...	1	...	...	...	...	1	...	...	...	3	...	...	·06	·14
	Total		19	8	7	13	9	10	16	4	12	28	51	31	138	70	208	·21	·20	·21	·29

TABLE of Deaths registered from ENTERIC FEVER by Section and Month in 1915.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of Population. Males.	Females.	Total.	Mean Ratio per 1,000 of Population during the previous 5 years.
A	Upper Colaba	...	...	...	...	1	...	...	...	1	...	...	...	...	...	2	...	...	1·28	·49
	Middle and Lower Colaba	...	1	...	...	2	...	1	...	...	...	...	2	...	...	6	...	...	·30	·31
	Fort, South	2	...	...	...	...	1	...	1	1	2	...	...	...	...	7	...	...	2·02	·56
	Fort, North	2	2	1	...	1	...	...	...	1	...	1	...	...	...	8	...	...	·31	·49
	Esplanade	...	...	...	...	1	...	1	...	...	...	...	...	...	...	2	...	...	·11	·36
B	Mandvi	...	1	...	...	...	...	...	...	...	...	1	...	...	...	2	...	...	·06	·11
	Chukla	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	·04	·03
	Umarkhadi	...	...	...	...	1	...	...	...	...	1	...	1	...	...	3	...	...	·06	·14
	Dongri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·07
C	Market	2	...	...	1	...	...	...	...	...	...	...	...	...	...	3	...	...	·09	·16
	Dhobi Talao	...	...	1	...	...	...	...	...	2	3	1	1	...	...	8	...	...	·20	·41
	Panaswadi	...	...	...	...	3	...	...	...	...	...	1	...	...	...	4	...	...	·14	·21
	Bhuleshwar	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	·02	·08
	Khara Talao	...	...	...	...	...	...	...	1	1	...	...	...	...	...	2	...	...	·08	·04
	Kumbharwada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·06
D	Khetwadi	...	1	3	...	...	1	2	2	...	...	...	1	...	...	10	...	...	·31	·27
	Girgaum	...	...	...	...	2	...	1	2	...	1	...	1	...	...	7	...	...	·22	·29
	Chowpati	...	1	...	...	...	1	...	...	...	1	...	...	...	...	3	...	...	·26	·34
	Walkeshwar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·09
	Mahalakshmi	...	...	...	1	...	...	1	2	1	1	...	...	...	...	6	...	...	·22	·23
E	Mazagon	...	1	...	1	...	1	...	...	...	...	...	...	...	...	3	...	...	·09	·19
	Tarwadi	...	...	...	...	...	...	...	2	...	...	1	...	...	...	3	...	...	·10	·21
	2nd Nagpada	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	·04	·04
	Kamathipura	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	·02	·02
	Tardeo	...	2	...	1	...	3	...	1	...	...	...	...	...	...	6	...	...	·21	·17
	Byculla	...	...	1	1	...	1	...	...	...	...	1	...	...	...	4	...	...	·05	·09
	1st Nagpada	...	...	...	...	...	1	...	1	...	...	...	...	...	...	2	...	...	·31	·34
F	Parel	...	...	...	...	1	...	...	...	...	1	...	...	...	...	2	...	...	·04	·04
	Sewri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.....
	Sion	...	1	...	...	2	...	...	...	1	...	...	...	...	...	4	...	...	·13	·09
G	Mahim	...	...	...	1	1	...	...	...	...	1	...	...	...	...	3	...	...	·09	·06
	Worli	...	...	...	...	1	...	...	1	1	...	...	...	...	...	3	...	...	·93	·07
	Harbour, Docks, Railways and Homeless	...	...	...	...	...	1	...	1	...	...	...	...	...	...	2	...	...	·04	·14
	Total	6	10	6	6	17	9	9	14	9	11	6	6	77	32	109	·12	·19	·11	·15

TABLE of Deaths registered from Fevers (excluding Malaria and Enteric Fever) by Section and Month in 1915.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June	July.	August.	September.	October.	November.	December.	Total.			Death Ratio per 1,000 of Population.			Mean Ratio per 1,000 of Population during the previous 5 years.
														Males.	Females.	Total.	Males.	Females.	Total.	
A	Upper Colaba	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	..	·64	1·49
	Middle and Lower Colaba	1	2	2	5	3	1	3	3	4	2	2	1	...	...	28	...	...	1·42	2·18
	Fort, South	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	·28	1·68
	Fort, North	3	9	5	3	13	10	4	8	5	3	3	1	...	...	67	..	...	2·63	3·98
	Esplanade	7	4	4	3	6	2	3	3	3	3	4	3	..	..	45	...	...	2·53	7·55
B	Mandvi	5	1	3	4	5	2	2	2	1	1	7	6	...	...	39	...	...	1·17	3·71
	Chukla	...	...	5	4	1	3	5	2	5	5	6	5	...	...	40	...	...	1·65	2·13
	Umarkhadi	9	2	11	17	13	8	9	11	9	9	1	...	...	...	99	...	...	2·16	2·51
	Dongri	2	4	1	8	2	1	1	3	5	2	...	...	...	...	29	...	...	1·06	3·31
C	Market	4	...	1	2	2	2	2	9	6	8	6	4	...	...	46	...	...	1·52	1·82
	Dhobi Talao	2	4	6	5	5	6	3	8	2	5	1	2	...	...	49	...	...	1·26	2·03
	Fanaswadi	5	2	2	5	4	3	3	3	6	1	1	4	...	...	39	...	...	1·42	1·87
	Bhuleshwar	3	3	2	4	2	7	5	7	5	3	4	2	...	...	47	...	...	1·28	1·63
	Khara Talao	4	3	3	5	5	5	2	5	5	3	...	...	...	...	40	...	...	1·74	2·27
	Kumbharwada	4	1	3	3	2	1	3	3	6	5	1	4	...	...	36	...	...	1·29	1·81
D	Khetwadi	3	1	1	3	6	2	3	5	6	4	4	6	...	...	44	...	...	1·57	1·39
	Girgaum	2	6	3	5	6	5	1	7	2	1	7	4	...	...	49	...	...	1·59	1·81
	Chowpati	1	..	1	...	1	2	2	1	...	2	...	...	...	...	10	...	...	·87	1·62
	Walkeshwar	...	...	1	...	...	...	...	2	...	...	...	...	...	...	3	..	...	·28	·72
	Mahalakshmi	...	5	2	5	2	1	2	2	4	3	2	...	...	...	24	...	...	1·06	2·50
E	Mazagon	13	8	18	11	14	10	14	11	14	14	7	21	...	...	155	...	...	5·15	5·22
	Tarwadi	10	10	13	15	13	7	11	19	18	5	6	14	...	...	140	...	...	4·92	6·92
	2nd Nagpada	...	4	4	9	4	5	6	8	7	6	...	1	...	...	53	...	...	2·44	3·53
	Kamathipura	6	5	10	7	16	9	11	16	11	7	1	...	...	..	19	...	...	2·69	4·82
	Tardeo	3	4	1	10	7	2	6	7	3	2	1	...	...	...	46	...	...	1·65	3·16
	Byculla	7	6	4	7	3	6	8	14	13	6	10	4	...	...	87	...	...	1·15	2·91
	1st Nagpada	...	2	..	1	2	...	2	...	...	...	...	...	..	...	7	...	...	1·09	2·41
F	Parel	11	6	12	8	12	9	8	17	16	3	1	6	...	...	109	...	...	2·39	3·75
	Sewri	4	6	2	5	2	1	3	4	6	5	3	1	...	...	42	...	...	2·20	3·79
	Sion	4	2	3	4	6	3	6	2	5	12	1	5	...	...	53	...	...	1·72	2·51
G	Mahim	4	5	2	4	2	5	1	2	3	3	8	5	...	...	44	...	...	1·44	1·50
	Worli	12	7	12	14	21	13	14	19	21	13	17	23	...	...	191	...		2·13	2·57
	Harbour, Docks, Railways and Homeless	...	1	2	...	...	...	...	...	2	...	2	1	...	...	8	...	...	.17	·35
	Total	129	113	139	176	179	133	143	201	193	139	106	123	1,043	731	1,774	1·62	2·15	1·81	2·76

TABLE of Deaths registered from DIARRHŒA and DYSENTERY by Section and Month in 1915.

Ward.	2 SECTION.	3 January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	4 Total. Males.	Females.	Total.	5 Death Ratio per 1,000 of Population. Males.	Females.	Total.	6 Mean Ratio per 1,000 of Population during the previous 5 years.
A	Upper Colaba	1	...	...	...	...	...	...	2	...	1	...	2	...	...	6	...	...	3·85	4·49
	Middle and Lower Colaba	1	...	4	1	1	2	2	3	1	1	5	3	...	...	24	...	...	1·21	2·71
	Fort, South	1	1	...	2	4	...	1	4	1	2	2	1	...	...	19	...	...	5·48	·84
	Fort, North	5	6	4	2	4	1	2	7	6	4	2	2	...	...	45	...	...	1·77	3·02
	Esplanade	18	7	4	4	2	2	3	8	3	4	6	9	...	...	70	...	...	3·94	5·11
B	Mandvi	5	1	3	5	3	2	3	4	5	4	5	2	...	...	42	...	...	1·26	2·01
	Chukla	1	3	3	6	2	1	3	5	1	2	4	...	...	...	31	...	...	1·27	2·09
	Umarkhadi	6	14	8	10	5	6	11	15	15	11	9	13	...	...	123	...	...	2·69	3·74
	Dongri	2	1	4	2	3	1	...	4	1	2	2	1	...	...	23	...	...	·84	4·05
C	Market	2	...	5	1	2	2	2	5	6	3	4	4	...	...	36	...	...	1·19	1·76
	Dhobi Talao	5	6	7	7	4	7	6	15	6	4	6	9	...	...	82	...	...	2·11	2·68
	Fanaswadi	...	2	4	5	7	2	4	11	7	4	5	2	...	...	53	...	...	1·93	2·05
	Bhuleshwar	7	5	7	9	14	7	8	8	6	8	4	9	...	...	92	...	...	2·52	3·86
	Khara Talao	9	7	2	4	3	7	4	7	7	6	4	3	...	...	63	...	...	2·74	3·53
	Kumbharwada	1	4	3	7	4	5	6	...	4	8	1	5	...	...	46	...	...	1·66	3·06
D	Khetwadi	6	8	2	5	1	3	1	9	4	5	3	2	...	...	44	...	...	1·37	2·20
	Girgaum	3	3	2	2	...	...	3	3	3	2	3	1	...	...	25	...	...	·81	1·64
	Chowpati	2	...	1	1	2	1	...	2	...	...	1	...	...	...	10	...	...	·87	1·70
	Walkeshwar	3	...	1	1	...	2	3	3	1	2	...	...	...	...	16	...	...	1·50	1·44
	Mahalakshmi	5	8	2	4	1	2	1	7	6	3	9	3	...	...	51	...	...	1·93	3·54
E	Mazagon	5	11	18	9	13	6	7	12	11	10	7	10	...	...	119	...	...	3·95	4·36
	Tarwadi	14	18	20	14	11	11	8	11	12	6	8	10	...	...	143	...	...	5·03	7·85
	2nd Nagpada	2	7	6	6	8	4	1	5	3	3	4	4	...	...	53	...	...	2·44	5·37
	Kamathipura	13	4	14	8	8	3	5	6	14	9	9	14	...	...	107	...	...	2·91	3·84
	Tardeo	4	8	4	5	3	6	8	14	10	5	1	10	...	...	78	...	...	2·81	5·13
	Byculla	19	11	19	19	21	12	22	24	21	18	21	25	...	...	232	...	...	3·07	6·48
	1st Nagpada	1	...	1	3	1	1	1	1	...	2	1	2	...	...	14	...	...	2·18	2·75
F	Parel	4	6	5	8	7	3	4	16	15	10	7	7	...	...	90	...	...	1·97	3·69
	Sewri	2	...	5	3	4	5	5	2	3	6	1	1	...	...	37	...	...	1·94	5·14
	Sion	6	1	8	11	5	4	6	4	12	8	5	8	...	...	78	...	...	2·54	4·20
G	Mahim	9	7	11	9	7	9	14	13	11	13	11	11	...	...	125	...	...	4·09	4·76
	Worli	8	12	21	11	19	16	11	25	38	17	13	14	...	...	205	...	...	2·28	3·43
	Harbour, Docks, Railways and Homeless	3	2	...	...	...	...	...	1	1	1	1	4	...	...	13	...	...	·28	·35
	Total ...	173	158	198	184	169	131	155	256	232	184	164	191	1,206	989	2,195	1·88	2·91	2·24	3·62

TABLE of Deaths registered from TUBERCLE OF LUNGS and TUBERCULAR DISEASES by Section and Month in 1915.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of Population. Males.	Females.	Total.	Mean Ratio per 1,000 of Population during the previous 5 years.
A	Upper Colaba	1	...	1	...	2	...	...	...	...	1	...	...	..	...	5	...	...	3·21	4·49
	Middle and Lower Colaba	1	1	3	6	2	1	1	2	4	2	3	...	...	...	25	...	...	1·27	1·54
	Fort, South	...	2	...	2	5	6	2	1	7	2	3	4	...	...	34	...	...	9·82	·56
	Fort, North	3	7	3	2	9	5	4	1	5	8	7	6	...	...	60	...	...	2·36	3·38
	Esplanade	5	4	4	1	2	10	3	7	3	6	4	6	...	...	55	...	...	3·09	3·22
B	Mandvi	5	5	3	12	6	5	3	4	3	3	7	6	...	...	72	...	...	2·16	2·16
	Chukla	10	9	4	7	13	5	4	1	2	4	3	2	...	...	64	...	...	2·64	3·76
	Umarkhadi	10	11	8	13	17	7	3	6	4	10	10	8	...	...	112	...	...	2·45	5·96
	Dongri	2	1	1	2	...	3	1	...	1	4	4	2	...	...	20	...	...	·73	2·96
C	Market	4	4	5	4	3	4	1	3	...	4	1	3	...	...	36	...	...	1·19	1·35
	Dhobi Talao	4	7	3	2	2	4	6	9	4	8	3	6	...	...	68	...	...	1·49	1·77
	Fanaswadi	2	1	4	2	...	5	3	1	4	4	7	2	...	...	35	...	...	1·27	1·36
	Bhuleshwar	5	1	6	1	3	4	1	5	7	3	5	7	...	...	48	...	...	1·31	1·98
	Khara Talao	4	5	4	4	5	6	8	4	6	11	5	3	...	...	65	...	...	2·82	3·53
	Kumbharwada	3	7	7	4	7	5	5	6	5	10	5	6	...	...	70	...	...	2·52	2·95
D	Khetwadi	8	8	7	2	9	10	5	6	6	11	7	5	...	...	84	...	...	2·63	3·38
	Girgaum	6	7	6	11	4	8	6	4	8	3	4	4	...	...	71	...	...	2·30	3·19
	Chowpati	5	4	1	2	...	3	3	3	1	4	1	1	...	...	26	...	...	2·28	2·13
	Walkeshwar	2	2	3	1	...	3	1	2	3	4	...	...	...	...	20	...	...	1·87	1·44
	Mahalakshmi	3	4	3	4	3	4	4	1	2	6	4	10	...	...	48	...	...	1·82	1·50
E	Mazagon	2	...	3	2	...	...	1	1	...	1	...	1	...	...	11	...	...	·36	1·42
	Tarwadi	6	2	5	6	7	6	2	11	3	5	9	7	...	...	69	..	...	2·42	3·89
	2nd Nagpada	7	5	4	2	6	3	2	3	...	5	9	13	...	...	59	...	...	2·71	4·22
	Kamathipura	18	18	13	15	9	11	15	12	13	11	18	18	...	...	171	...	...	4·65	5·04
	Tardeo	7	3	4	5	3	5	1	5	5	12	7	7	...	...	63	...	...	2·26	3·26
	Byculla	8	7	8	10	6	5	6	3	4	9	12	4	...	...	86	...	...	1·14	1·49
	1st Nagpada	...	1	...	1	...	...	1	...	...	1	..	...	...	...	4	...	...	·62	3·44
F	Parel	3	2	...	1	2	3	3	4	5	5	3	6	...	...	37	...	...	·81	1·72
	Sewri	...	1	1	1	1	...	...	...	1	1	...	...	...	...	6	...	...	·31	1·40
	Sion	2	1	4	1	2	4	1	1	5	3	4	1	...	...	29	...	...	·94	1·89
G	Mahim	1	3	1	2	2	3	3	3	2	1	7	6	...	...	34	...	...	1·11	2·15
	Worli	6	11	6	8	9	7	8	12	16	11	21	9	...	...	124	...	...	1·38	2·13
	Harbour, Docks, Railways and Homeless	3	2	...	1	...	...	1	...	...	...	1	1	...	...	9	...	...	·20	·11
	Total ...	146	146	129	137	138	143	112	120	129	178	174	158	786	924	1,710	1·22	2·72	1·74	2·52

TABLE of Deaths registered from RESPIRATORY DISEASES (excluding Phthisis) by Section and Month in 1915.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of Population. Males.	Females.	Total.	Mean Ratio per 1,000 of Population during the previous 5 years.
A	Upper Colaba	3	...	1	2	...	1	2	...	1	...	1	1	...	...	12	...	...	7·70	9·99
	Middle and Lower Colaba	11	7	13	11	15	10	8	7	11	13	9	10	...	...	124	...	...	6·80	6·85
	Fort, South	...	1	3	2	5	...	2	2	1	...	2	2	...	...	20	...	...	5·77	2·52
	Fort, North	7	6	12	8	9	12	12	6	12	12	15	16	...	...	127	...	...	5·00	8·16
	Esplanade	5	4	6	11	1	8	3	8	5	8	8	11	...	...	78	...	...	4·39	7·06
B	Mandvi	12	11	24	20	21	14	18	20	20	30	37	31	...	...	238	...	...	7·77	11·99
	Chukla	17	14	21	22	19	17	14	21	14	20	19	26	...	...	224	...	...	9·24	11·83
	Umarkhadi	37	31	35	35	38	35	32	41	38	38	44	45	...	...	449	...	...	9·82	12·35
	Dongri	17	14	17	27	30	19	13	19	10	14	14	17	...	...	211	...	...	7·74	11·78
C	Market	16	7	13	14	14	12	12	9	9	22	15	19	...	...	162	...	...	5·36	7·11
	Dhobi Talao	21	18	29	22	26	29	10	16	18	22	21	22	...	...	254	...	...	6·56	8·57
	Fanaswadi	15	14	21	18	14	12	22	10	16	11	6	22	...	...	181	...	...	6·60	7·52
	Bhuleshwar	26	13	19	33	37	22	19	15	24	19	26	31	...	...	274	...	...	7·51	10·69
	Khara Talao	19	16	13	9	17	10	16	21	15	17	15	15	...	...	183	...	...	7·96	11·14
	Kumbharwada	18	23	15	27	18	21	20	16	14	28	27	18	...	...	245	...	...	8·84	10·18
D	Khetwadi	16	13	25	25	21	18	15	18	19	20	24	19	...	...	233	...	...	7·29	7·15
	Girgaum	19	21	20	19	14	12	15	12	15	29	21	12	...	...	209	...	...	9·79	7·95
	Chowpati	4	5	3	2	6	7	1	4	2	6	4	5	...	...	49	...	...	4·29	5·71
	Walkeshwar	8	3	8	5	9	3	4	7	4	4	4	8	...	...	67	...	...	6·29	4·97
	Mahalakshmi	15	14	14	16	16	11	8	4	9	6	10	15	...	...	138	...	...	5·24	5·96
E	Mazagon	13	15	8	12	15	17	15	16	15	16	26	24	...	...	192	...	...	6·38	9·95
	Tarwadi	19	15	21	19	18	17	18	11	14	24	29	23	...	...	238	...	...	8·02	11·57
	2nd Nagpada	20	13	10	18	21	17	12	20	17	21	14	28	...	...	211	...	...	9·72	11·53
	Kamathipura	21	17	26	18	17	22	23	21	30	33	34	49	...	...	311	...	...	8·46	11·44
	Tardeo	15	10	21	14	13	21	21	19	11	25	15	22	...	...	207	...	...	7·45	9·01
	Byculla	64	39	38	55	51	52	53	47	60	50	57	79	...	...	644	...	...	8·54	11·59
	1st Nagpada	3	2	4	3	3	7	7	4	2	2	3	5	...	...	45	...	...	7·01	8·62
F	Parel	13	17	27	29	24	23	18	21	26	24	20	37	...	...	279	...	...	6·13	7·60
	Sewri	15	12	12	9	7	11	8	7	6	15	5	13	...	...	120	...	...	6·29	7·53
	Sion	15	19	18	19	12	10	11	14	24	16	20	18	...	...	196	...	...	6·38	6·98
G	Mahim	19	20	27	14	22	20	25	12	17	21	22	22	...	...	241	...	...	7·90	9·59
	Worli	41	32	48	53	54	42	53	61	48	41	54	55	...	...	582	...	...	6·49	8·50
	Harbour, Docks, Railways and Homeless	3	2	3	...	2	1	...	1	2	1	1	...	...	...	16	...	...	·35	·35
	Total ...	547	448	574	591	579	533	509	510	529	608	622	720	3,864	2,906	6,770	6·03	8·56	6·91	8·96

TABLE of Deaths registered from INJURIES by Section and Month in 1915.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total. Males.	Total. Females.	Total. Total.	Death Ratio per 1,000 of Population. Males.	Females.	Total.	Mean Ratio per 1,000 of Population during the previous 5 years.
A	Upper Colaba	...	...	1	...	3	...	2	3	1	...	1	1	...	...	10	...	...	6·42	1·49
	Middle and Lower Colaba	...	1	...	2	1	2	...	3	1	1	1	1	...	...	13	...	...	·66	·69
	Fort, South	3	...	...	1	...	5	...	3	3	...	1	9	...	...	25	...	...	7·22	·84
	Fort, North	...	3	...	3	2	2	...	...	1	3	1	2	...	...	17	...	...	·66	·88
	Esplanade	2	2	...	...	1	2	3	4	4	1	2	3	...	...	24	...	...	1·35	2·80
B	Mandvi	...	1	3	1	1	...	2	2	1	1	1	1	...	...	14	...	...	·42	·49
	Chukla	...	1	1	2	1	...	...	...	...	2	2	...	...	...	9	...	...	·37	·55
	Umarkhadi	1	...	1	4	2	4	2	3	1	2	4	...	...	...	24	...	...	·52	·67
	Dongri	1	1	...	...	3	1	1	2	1	...	1	2	...	...	13	...	...	·47	·63
C	Market	1	4	1	3	...	1	2	...	3	1	4	...	...	...	19	...	...	·62	·51
	Dhobi Talao	2	1	1	3	1	1	4	2	2	...	...	1	...	...	18	...	...	·16	·67
	Fanaswadi	...	2	1	...	...	3	1	...	...	3	...	...	...	...	10	...	...	·86	·39
	Bhuleshwar	2	...	1	2	1	1	...	2	3	...	...	2	...	...	14	...	...	·38	·57
	Khara Talao	2	1	1	2	2	1	1	1	...	1	...	1	...	...	13	...	...	·56	·79
	Kumbharwada	3	...	2	...	4	1	...	1	1	...	2	1	...	...	15	...	...	·54	·52
D	Khetwadi	2	2	2	3	3	1	1	1	...	...	2	2	...	...	19	...	...	·59	·71
	Girgaum	2	1	1	1	4	...	...	4	...	1	...	...	...	...	14	...	...	·45	·42
	Chowpati	...	...	...	1	...	...	2	1	1	1	...	...	...	...	6	...	...	·52	·59
	Walkeshwar	...	...	...	...	...	1	2	2	...	1	...	1	...	...	7	...	...	·65	·63
	Mahalakshmi	1	...	1	1	1	...	1	...	2	...	1	...	...	...	8	...	...	·30	·38
E	Mazagon	3	2	...	1	2	1	1	1	...	1	3	4	...	...	19	...	...	·63	·66
	Tarwadi	5	4	6	2	7	6	5	4	7	13	8	3	...	...	70	...	...	2·46	2·82
	2nd Nagpada	2	...	...	...	...	2	1	1	1	3	...	3	...	...	13	...	...	·59	·64
	Kamathipura	2	1	3	1	2	...	2	...	1	1	1	5	...	...	19	...	...	·51	·70
	Tardeo	...	1	1	3	1	2	2	...	1	1	...	1	...	...	14	...	...	·50	·43
	Byculla	2	2	2	2	2	2	4	2	...	4	4	2	...	...	28	...	...	·87	·59
	1st Nagpada	...	...	1	2	...	...	...	1	1	1	...	3	...	...	9	...	...	1·40	1·03
F	Parel	2	2	1	...	5	1	...	...	...	2	5	5	...	...	23	...	...	·50	·48
	Sewri	3	...	1	1	1	1	...	1	...	1	1	1	...	...	11	...	...	·57	·54
	Sion	...	2	1	2	...	4	3	2	...	1	2	2	...	...	19	...	...	·61	·68
G	Mahim	2	3	2	2	...	3	2	3	2	4	2	2	...	...	27	...	...	·88	·62
	Worli	...	...	5	5	2	5	4	7	2	4	3	3	...	...	39	...	...	·43	·42
	Harbour, Docks, Railways and Homeless	3	1	1	6	2	3	...	3	1	2	...	1	...	...	23	...	...	·51	·54
	Total	46	38	41	55	54	56	48	58	41	56	52	61	436	170	606	·68	·50	·61	·68

TABLE of Deaths registered from OTHER CAUSES by Section and Month in 1915.

1	2	3												4			5			6
Ward.	SECTION.	January.	February.	March	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.			Death Ratio per 1,000 of Population.			Mean Ratio per 1,000 of Population during the previous 5 years.
														Males.	Females.	Total.	Males.	Females.	Total.	
A	Upper Colaba	...	6	3	3	1	...	1	2	2	3	2	1	...	...	24	...	...	15·41	17·49
	Middle and Lower Colaba	7	16	6	9	9	5	12	15	12	14	13	9	...	...	127	...	..	6·15	8·29
	Fort, South	2	1	1	4	2	4	2	4	3	1	3	...	...	...	27	...	...	7·79	4·49
	Fort, North	22	27	19	15	16	21	33	17	14	33	20	22	...	...	249	...	..	9·80	12·96
	Esplanade	10	12	13	9	9	9	10	10	18	9	10	17	...	...	136	...	...	7·65	8·59
B	Mandvi	19	19	19	18	26	19	24	25	33	27	25	24	...	...	276	...	...	8·37	11·93
	Chukla	14	23	24	24	23	29	26	19	20	15	29	20	...	...	266	...	...	10·97	16·07
	Umarkhadi	51	42	54	44	57	44	46	57	57	51	47	60	...	...	610	...	...	13·35	15·48
	Dongri	18	11	13	22	22	11	16	21	10	11	17	13	...	...	180	...	...	6·60	11·11
C	Market	10	12	13	16	18	12	14	18	21	25	11	19	...	...	189	...	...	6·26	9·03
	Dhobi Talao	46	30	42	28	32	26	26	36	31	44	43	22	...	...	406	...	...	10·49	11·99
	Fanaswadi	24	17	27	18	24	17	14	20	29	25	23	24	...	...	262	...	...	9·56	9·93
	Bhuleshwar	35	29	28	26	35	30	27	30	38	29	41	36	...	...	384	...	...	10·53	13·56
	Khara Talao	24	25	26	31	25	22	27	27	24	34	26	31	...	...	321	..	...	13·96	18·04
	Kumbharwada	23	15	21	22	15	16	23	31	23	24	22	25	...	...	258	...	...	9·31	13·80
D	Khetwadi	34	22	39	24	27	21	24	26	41	21	22	30	...	...	331	...	...	10·36	11·21
	Girgaum	23	21	33	29	25	26	34	18	31	23	22	30	...	...	315	...	...	10·23	12·50
	Chowpati	9	12	11	6	7	12	11	9	14	14	11	9	...	...	125	...	...	10·96	10·49
	Walkeshwar	6	9	9	10	12	2	5	15	9	8	16	10	...	...	111	...	...	10·43	8·68
	Mahalakshmi	15	19	14	20	14	23	15	29	23	22	26	25	...	...	245	...	...	9·31	9·47
E	Mazagon	15	21	14	21	14	18	17	22	27	30	19	22	...	...	240	...	...	7·98	12·07
	Tarwadi	22	28	39	25	30	28	42	38	42	32	31	29	...	...	386	...	...	13·58	17·32
	2nd Nagpada	21	23	33	23	30	30	34	24	23	34	13	24	...	...	312	...	...	14·37	19·20
	Kamathipura	38	25	30	30	41	20	29	33	47	34	27	22	...	...	376	...	...	10·23	16·59
	Tardeo	20	18	25	27	27	16	13	24	27	29	26	25	...	...	277	...	...	9·97	33·35
	Byculla	77	73	78	67	61	62	66	67	90	83	75	69	...	...	868	...	...	11·51	14·29
	1st Nagpada	3	5	8	10	3	5	2	6	5	6	7	6	...	...	66	...	...	10·28	12·07
F	Parel	8	15	27	24	30	21	27	33	36	35	49	43	...	...	348	...	...	7·65	9·87
	Sewri	11	8	7	10	6	6	7	16	13	16	10	17	...	...	127	...	...	6·66	10·02
	Sion	27	30	23	22	21	22	24	37	30	29	34	31	...	...	330	...	...	10·75	12·46
G	Mahim	32	23	22	17	14	21	24	21	39	21	22	38	...	...	289	...	...	9·47	10·44
	Worli	53	46	45	58	57	51	55	85	72	84	77	95	...	...	776	...	...	8·65	9·25
	Harbour, Docks, Railways and Homeless	4	5	2	1	2	2	2	2	2	2	1	1	...	...	26	...	...	·57	·61
	Total ..	718	688	765	713	733	651	722	837	906	868	820	844	4,762	4,503	9,265	7·43	13·27	9.45	11·88

COMPARATIVE TABLE of Deaths from some of the PRINCIPAL CAUSES during 1915 and the preceding 5 years.

YEAR.	Cholera.		Small-pox.		Measles.		Plague.		Malaria.		Enteric Fever.		Other Fevers.		Diarrhœa and Dysentery.		Tubercle of Lungs including other Tubercular Diseases.		Respiratory Diseases.		Injuries.		All other Causes.		Total Deaths.	
	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.	No. of deaths.	Rate per 1,000.
1910 ...	107	·10	1,008	1·03	184	·18	3,656	3·73	293	·29	156	·15	2,664	2·72	3,352	3·42	2,839	2·90	8,212	8·39	701	·71	11,761	12·02	34,933	35·72
1911 ...	123	·12	443	·45	652	·66	4,006	4·09	334	·34	145	·14	2,667	2·72	3,075	3·13	2,694	2·75	8,640	8·82	702	·71	11,480	11·72	34,961	35·69
1912 ...	1,790	1·82	979	·99	210	·21	1,717	1·75	360	·36	152	·15	3,073	3·13	4,544	4·63	2,794	2·85	9,686	9·88	680	·69	12,969	13·24	38,954	39·77
1913 ...	125	·12	212	·21	222	·23	2,609	2·66	361	·26	54	·15	2,628	2·68	3,173	3·23	2,152	2·19	8,604	8·78	660	·67	11,006	11·23	31,806	32·47
1914 ...	221	·22	252	·25	263	·26	2,941	3·00	313	·31	147	·15	2,517	2·56	3,102	3·16	1,889	1·92	8,734	8·91	608	·62	10,966	11·19	31,853	32·52
Mean of the preceding 5 years.	473	·48	579	·59	306	·31	2,986	3·04	292	·29	151	·15	2,710	2·76	3,449	3·52	2,474	2·52	8,775	8·96	670	·68	11,636	11·88	34,501	35·23
1915 ..	16	·01	359	·36	70	·07	599	·61	208	·21	109	·11	1,774	1·81	2,195	2·24	1,710	1·74	6,770	6·91	606	·61	9,265	9·45	23,681	24·17

SPECIFIC CAUSES of DEATHS in 1915 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London.

No.	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
	GENERAL DISEASES.													
1	Small-pox	17	16	51	60	70	37	20	18	16	7	10	37	359
2	Cow-pox	...	...	...	...	...	...	...	...	...	...	...	...	...
3	Chicken-pox	...	2	...	...	2	...	...	1	...	...	...	...	5
4	Measles	3	10	11	12	3	3	5	2	4	6	6	5	70
8	Plague	7	17	77	159	131	32	41	31	28	23	24	29	599
11	Influenza	...	1	...	...	...	...	...	...	...	...	...	...	1
12	Whooping Cough	...	2	2	...	1	2	1	1	...	...	3	...	12
13	Mumps	...	...	...	...	1	...	...	...	...	...	...	...	1
14	Diphtheria	1	...	...	...	...	...	1	1	...	1	...	2	6
15	Cerebro-Spinal Fever	...	1	1	1	1	...	1	...	...	...	...	1	6
17	Enteric Fever	6	10	6	6	17	9	9	14	9	11	6	6	109
18	Cholera	...	...	3	3	...	3	2	5	...	...	...	...	16
19	Choleraic Diarrhœa	...	...	...	...	...	...	...	...	...	...	...	...	...
20	Diarrhœa	125	118	148	130	122	98	119	182	153	115	115	141	1,566
21	Dysentery	48	40	50	54	47	33	36	74	79	69	49	50	529
23	Beri-Beri	...	...	...	...	...	...	...	...	...	1	...	...	1
24	Malarial Fever	19	8	7	13	9	10	16	4	12	28	51	31	208
	Ague and Remittent Fever	129	113	139	176	179	133	143	201	193	136	106	123	1,774
25	Phagedæna	1	...	...	...	...	1	...	...	...	...	...	...	2
26	Erysipelas	4	1	...	...	1	...	...	2	2	...	1	1	12
27	Pyæmia	...	1	2	2	1	...	...	1	1	1	...	1	10
28	Septicæmia	2	1	2	6	2	2	5	5	3	5	3	4	40
	Puerperal Septicæmia	21	10	22	14	26	16	6	21	19	29	26	11	220
	Septic Disease	1	...	1	...	1	2	...	...	1	1	2	1	10
	Septic Sore Throat	...	...	...	...	1	...	...	...	...	...	...	...	1
	Blood Poisoning	1	...	...	...	...	...	1	...	...	...	...	2	4
	Staphylococcus	...	...	...	...	...	...	1	...	...	...	...	...	1
	Septic Fever	...	...	1	2	1	...	1	...	1	1	...	1	8
	Septic Coma	...	1	...	...	...	...	...	...	...	...	...	...	1
	Septic Osteo Myelitis	...	...	...	...	1	...	...	...	...	...	1	...	2
	Septic Meningitis	1	...	1	...	...	...	1	...	...	...	...	1	4
	Alcoholism	1	...	1	...	...	1	...	1	2	1	...	1	8
	Septic Celulitis	1	...	1	...	...	...	...	...	...	...	...	...	2
	Parotitis	1	...	...	...	...	...	...	...	...	...	...	...	1
29	Tetanus	12	13	11	10	6	8	4	7	1	9	18	5	104
	Traumatic Tetanus	...	...	...	...	...	1	...	1	...	...	...	...	2
	Idiopathic	...	...	...	...	...	...	1	...	...	...	...	1	2
	Coma	...	...	...	...	...	...	...	...	...	...	...	...	...
	Corpo Pedal Tetany	...	...	...	...	1	...	...	...	...	...	...	...	1
	Enteric Toxæmia	...	...	1	...	1	...	1	...	...	...	...	...	3
	Delirium Tremens	...	...	...	1	...	...	...	...	...	...	...	...	1
30	Tubercle of Lungs	23	12	19	20	27	22	28	26	23	43	30	24	297
	Tuberculosis	9	14	7	12	11	10	5	9	4	11	16	7	115
	Other Tubercular Affections	15	13	19	20	20	18	12	11	12	15	12	16	184
	Scrofula	5	2	4	6	8	4	6	5	3	9	5	1	58
	Tabes Mesenterica	...	1	...	...	...	...	...	...	2	...	...	1	4
	Kala Azar	...	...	1	...	...	...	...	...	...	...	...	...	1
31	Leprosy	6	5	5	7	5	6	1	5	7	3	6	3	59
	Cancer	5	1	6	8	9	6	5	8	3	11	8	7	72
33	Syphilis	6	2	3	2	3	1	...	2	1	6	2	8	35
	Syphilitic Thrombosis	...	1	...	1	...	...	...	...	...	...	...	1	4
	„ Secondary	...	...	3	2	4	2	2	4	1	1	1	3	23
	„ Tertiary	1	...	1	2	2	2	2	1	...	1	...	1	13
	„ Cachexia	...	...	1	...	1	...	...	...	1	...	...	...	3
	„ Rectum	...	...	...	...	...	...	1	...	...	...	...	...	1
	„ Hemiplegia	...	1	1	1	...	...	...	...	...	...	...	...	2
	Syphilis Cerebral	...	1	1	...	...	...	...	...	...	...	...	...	2
	Syphilitic Rhinitis	...	...	...	...	1	...	...	...	...	...	...	...	1
	„ Rheumatism	2	2	...	...	1	2	2	...	1	1	...	1	12
35	Hydrophobia	2	2	...	2	...	...	...	...	...	1	1	2	10
36	Glanders	...	...	5	5	...	...	...	...	...	...	...	...	...
40	Worms	3	1	...	...	1	2	2	5	2	...	2	1	29
54	Scurvy	...	...	...	...	...	...	...	...	1	...	1	...	2
58	Rheumatic Fever	...	...	4	4	...	...	2	...	...	1	...	1	4
59	Rheumatism	3	7	...	...	6	7	5	4	3	8	6	8	65
	„ Synovitis	...	...	1	...	...	...	...	...	...	...	...	...	1
63	New Growth, Non-Malignant	...	...	...	...	...	...	...	...	...	...	...	...	...
	Filariasis	...	...	...	1	...	...	1	...	1	...	1	...	4
	Intra Thoracic Growth	...	1	...	...	...	...	...	...	...	...	...	...	1
64	New Growth, Malignant	2	...	1	...	1	...	1	2	2	1	...	...	10
	Epithelioma	...	...	...	...	...	...	1	1	...	...	...	...	2
	Lympho Sarcoma	...	...	...	...	...	...	1	...	...	...	...	...	1
	Sarcoma	1	1	...	...	1	...	...	1	1	6	...	1	12
	Abdominal Tumour	...	...	...	...	1	...	...	...	...	...	...	...	1
	Cerebral Tumour	...	...	1	...	...	...	1	1	...	...	1	2	6
	Operation for removal of Tumour	...	1	1	...	...	...	...	1	1	...	...	...	4
	Congenital Malformation Ganium	...	...	...	...	...	...	1	...	...	1	1	...	3
	Osteo Sarcoma	...	...	...	...	...	...	...	...	...	1	...	...	1
	Myoma of Uterus	...	...	...	1	...	...	...	...	...	...	...	...	1
	Gonorrhœa	1	1	...	...	...	...	...	...	...	...	...	...	2
65	Rickets	46	54	74	71	70	66	62	75	77	76	62	55	788
68	Anæmia	31	42	38	46	30	36	19	25	36	30	31	28	392
69	Chlorosis	1	...	...	...	...	...	...	...	1	...	...	...	2
70	Pernicious Anæmia	10	9	15	12	8	13	14	14	12	6	5	6	123

20—*continued.*

SPECIFIC CAUSES of DEATHS in 1915 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*continued.*

No.	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
72	Leuchæmiæ	..	...	...	..	..	...	...	1	..	..	..	...	1
75	Diabetes Mellitus	2	3	3	1	7	13	5	4	1	2	3	5	49
	Diabetic Coma	1	...	...	...	...	1	...	1	...	...	...	..	3
	Diabetic Gangrene	...	...	...	...	...	...	...	...	...	...	...	...	...
77	Immaturity at Birth	21	15	14	12	10	10	16	24	25	24	19	22	212
79	Debility	133	115	129	155	158	129	177	217	247	225	171	191	2,047
80	Old Age	131	127	126	102	98	75	87	83	127	94	79	112	1,241
	Phlegmo Omphalitis	...	...	...	...	1	...	...	...	...	...	...	...	1
	Purpura	...	1	...	...	...	...	...	...	...	...	...	...	1
	DISEASES OF THE NERVOUS SYSTEM.													
83	Meningitis	...	6	3	5	5	5	7	1	4	4	12	4	56
	Cerebral Meningitis	...	1	...	...	1	...	...	1	2	1	2	...	8
	Cerebro-Spinal Meningitis ...	1	1	1	...	1	1	...	1	1	1	1	2	11
85	Myelitis	1	...	...	...	1	1	1	1	...	...	...	1	6
	Loco-motor Ataxy	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arterio Sclerosis	...	1		...	1	...	1	1	...	...	...	...	4
	Icterus Neonatorum	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tabes Dorsalis	...	...	...	...	...	...	...	...	...	...	...	1	1
90	Hæmorrhage	1	1	...	...	1	...	1	1	...	...	...	...	5
	,, in the Pons	...	...	...	...	...	...	...	1	...	...	...	...	1
	,, Lateral Ventricle	...	...	...	...	...	...	1	...	...	...	...	...	1
	,, in the Brain	...	...	1	...	1	...	...	1	...	...	...	...	3
	,, Spinal Cord	...	...	...	...	1	...	...	...	...	...	...	...	1
	,, Cranial	...	...	...	..	...	...	...	...	...	...	...	1	1
95	Cerebral Fever	...	...	...	...	...	...	...	...	...	...	...	...	...
	,, Hæmorrhage	1	5	5	5	8	8	2	6	...	5	5	6	55
	,, Laceration	...	...	...	...	...	...	...	1	...	...	...	...	1
	Hœmorrhage Diathises	...	...	...	...	...	1	...	...	...	...	...	...	1
	Encephalitis	...	...	...	...	...	...	...	...	...	...	...	...	2
97	Congestion	...	...	...	..	...	...	1	...	...	1	...	...	2
	Brain Fever	...	...	...	...	1	...	...	...	1	...	...	...	...
	Thrombosis Cerebral	1	...	...	...	...	...	...	..	...	...	...	...	4
101	Hydrocephalus	...	...	...	...	...	...	...	1	1	1	...	...	3
102	Apoplexy	3	2	..	...	...	...	1	1	...	...	...	1	12
	Cerebral Apoplexy	1	...	..	1	...	1	...	...	3	1	..	1	3
					..	...	1	...	...	1	...	...	...	
103	Paralysis	8	2	7	6	6	5	7	4	7	3	6	4	65
	Bulbar Paralyses	...	...	...	...	1	...	...	...	...	1	...	...	2
	Paraplegia	1	3	3	2	2	...	1	1	2	3	3	3	21
	Hemiplegia	4	11	13	16	6	8	15	7	13	9	14	7	122
	Post Hemiplegic Athetoses ...	...	...	...	...	...	...	1	...	...	..	...	...	1
117	Eclampsia	1	...	...	1	...	...	...	1	...	...	3	...	6
	,, Infantile	78	71	79	76	94	83	102	87	97	103	96	114	1,080
	,, Puerperal	2	3	1	...	...	...	5	3	2	4	2	1	20
118	Epilepsy	3	...	3	2	4	1	1	1	1	1	...	5	22
	,, Fits	...	1	...	1	...	...	2	1	..	...	...	1	6
120	Tetany	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arsenical Neuritis	...	...	...	...	...	...	...	...	...	...	...	...	1
127	Hysteria	...	...	1	...	...	...	...	...	...	1	...	...	3
131	Nervous Weakness	...	...	...	...	...	...	...	...	1	1	...	...	1
136	Cretenoid Idiocy	...	...	...	...	...	...	1	...	...	...	1	...	1
137	Mania	...	...	...	...	...	...	...	...	1	...	...	...	1
138	Melancholia	...	...	...	...	...	...	...	...	...	...	...	...	1
139	Dementia	...	...	...	...	...	1	...	...	...	...	...	1	1
	DISEASES OF THE EYE, EAR & NOSE													
	Cataract	...	...	...	...	...	...	...	...	...	1	...	...	1
	Mastoiditis	...	...	...	...	...	1	...	...	...	...	...	...	1
	Corneal Ulceration of eyes ...	...	...	...	...	...	1	...	...	...	...	...	...	1
	Suppurative otitis Media	...	...	...	...	...	1	...	1	...	...	...	...	2
	Naso Pharyngeal Sarcoma ...	...	...	...	...	...	...	...	1	...	..	...	...	1

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SPECIFIC CAUSES of DEATHS in 1915 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*continued.*

No.	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
	DISEASES OF THE CIRCULATORY SYSTEM.													
252	Pericarditis	...	...	...	...	1	1	...	1	...	..	...	...	3
258	Endocarditis	...	2	...	...	1	1	...	...	...	1	1	...	6
	,, Rheumatic	...	...	...	...	...	1	...	...	...	...	...	...	1
259	Valvular Disease of Heart... ...	11	8	16	9	11	8	11	11	10	11	12	15	134
	Mitral and Aortic Regurgitation...	2	...	1	2	2	...	1	2	3	1	1	3	18
	Mitral Incompetency	...	...	1	...	...	...	1	...	...	...	...	...	2
	Mitral Stenosis and Regurgitation.	...	...	1	...	...	...	...	...	...	1	...	...	2
	Atheroma	...	...	...	...	...	...	...	...	...	1	...	...	1
261	Cardiac Asthma	...	1	...	1	2	...	...	1	2	1	...	...	8
	,, Debility	...	1	...	...	...	...	...	...	...	...	...	...	1
	,, Dyspnœa	...	...	...	...	...	...	...	1	...	1	...	...	2
	,, Dropsy	...	...	1	...	...	...	...	1	...	...	...	...	2
	,, Failure	...	...	...	...	...	...	2	...	2	1	2	...	7
264	Dilatation of Heart...	...	2	1	1	...	...	1	3	1	...	2	1	11
265	Fatty Heart	2	...	...	1	...	...	...	1	1	...	...	...	5
	Weak Heart	...	...	...	...	...	1	...	...	1	...	...	...	2
266	Aneurysm of Heart...	...	..	1	...	...	...	...	...	...	1	...	...	2
269	Pulmonary Embolism	...	...	1	1	...	...	2	...	...	2	...	...	6
271	Angina Pectoris	2	3	3	3	3	...	...	3	2	1	2	2	24
272	Syncope	2	1	1	1	...	2	...	1	2	...	2	...	12
	Heart Failure	9	7	7	4	5	4	6	8	6	9	9	5	79
276	Degeneration of Coronary Arteries.	...	...	...	..	...	...	...	...	1	...	...	...	1
280	Aneurysm	1	...	...	...	...	1	1	...	...	...	...	...	3
284	Rupture of Aneurysm of Aorta ...	1	1	1	...	...	...	...	...	...	...	...	1	4
290	Thrombosis of Cerebral Arteries...	...	...	1	...	...	...	...		1	2	...	...	4
	Rupture of both Cardiac Auricles	...	...	1	...	...	...	...	...	...	...	...	...	1
	DISEASES OF THE RESPIRATORY SYSTEM.													
302	Laryngitis	...	1	...	...	...	...	...	...	3	...	1	...	5
315	Bronchitis	74	69	83	70	85	88	84	80	88	87	62	69	934
	,, Catarrhal	1	1	1	...	...	...	...	...	1	...	...	...	4
	,, Capillary	47	32	64	82	70	75	61	80	57	83	65	67	783
	,, (Acute or Chronic) ...	103	84	91	98	87	76	69	77	85	88	107	138	1,103
322	Spasmodic Asthma	101	87	88	94	68	66	78	72	88	80	79	88	984
	DISEASES OF LUNGS.													
323	Congestion	...	...	...	...	...	...	...	...	...	...	...	..	...
	Hæmoptysis	...	...	...	...	...	...	...	..	1	...	...	...	1
	Atelectasis	2	...	1	2	1	...	2	...	...	4	2	1	15
325	Œdema	...	...	...	...	...	...	...	...	...	...	...	...	...
	,, of Lungs	...	1	1	..	...	1	...	..	..	1	...	...	4
326	Pneumonia	139	101	127	146	148	122	100	99	113	129	189	221	1,634
	,, Lobar	1	3	4	3	2	1	1	3	2	1	4	2	27
	,, Double	1	2	4	5	3	1	9	...	2	2	...	2	31
	,, Pleuro	2	...	1	...	1	1	2	...	...	1	...	..	8
	,, Croupous	...	...	1	...	...	...	...	...	...	...	...	...	1
327	Broncho-Pneumonia	70	67	103	91	110	103	100	95	91	126	117	123	1,190
334	Phthisis	99	107	84	85	79	93	67	74	90	109	116	111	1,114
335	Emphysema	3	...	3	...	4	3	3	1	2	2	...	5	26

20—*continued.*

SPECIFIC CAUSES of DEATHS in 1915 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*continued.*

No.	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
	DISEASES OF THE PLEURA.													
339	Pleurisy	3		1					2	1	2		4	13
343	Pneumo Thorax								1		2			3
	DISEASES OF THE DIGESTIVE SYSTEM.													
348	Stomatitis	1			1		1	1	2	2				8
350	Cancrum Oris									1				1
	Thrush						1							1
353	Disorders of Dentition	15	9	12	11	10	13	18	30	36	19	33	25	231
387	Tonsilitis					2		1						3
399	Stricture of Œsophagus						1	1	1		3			6
402	Gastritis			1				1					1	3
403	Gastric Ulceration	1	2						1			1	2	7
	Bowel Complaint	1		1	1		1		1			1	1	7
414	Gastric Enteritis	5	2	3	6	5	1	4	6	3	2	4	4	45
419	Dyspepsia	1		2	2	2	1		3		1	1	2	15
426	Vomitting Acute	1						2		1	1	2		7
	Indigestion					1						1		2
	Infantile Biliary Cirrhosis								1					1
	Intestinal Toxæmia				1							1	1	3
	Pharyngitis								1					1
	Hepatic Pneumonia				1							1		2
	Gangrene Mouth													1
	Stricture of Gullet				1									1
438	Inflammation of Throat			1	1									2
	Inflammation of Intestines												1	1
	Enteritis	5		6	4	4	5	5	9	6	5	8	15	72
	Entero colitis	1		1		1		1			1			5
	Muco-Enteritis					1			2					3
	Appendicitis			1			1	2			3	1	1	9
	Muco Colitis					1			1					2
444	Sprue	5	8	8	9	6	1	7	11	5	11	9	11	91
445	Hernia													
	Inguinal												1	1
	„ Strangulated	2		1	4	1	1	3	3			3	3	21
	Helmenthisis	1												1
	Noma									1				1
	Pyloric Obstruction		1		1									2
	Hæmatemisis	1				1	1							3
453	Intestinal Obstruction	1	3	1	2	3	4	6	2	6	7	4	7	46
455	Perforation			1					1				2	4
461	Colic	2			1	1		1	1		1		2	9
466	Ulceration of Rectum	1						1	1					3
	„ Intestines										1	1		2
468	Fistula in Ano			2	1	1			1		1			6
	Ischio and Rectal Abscess			1							1		1	3
475	Prolapse of Rectum								1					1
477	Piles	3	3	1	1	1			1		1	2	2	17
	Hæmorrhoids Bleeding		1		2	1	1		1		2	1		9
479	Hepatitis	11	11	11	3	6	14	11	8	13	12	11	12	123
	Cirrhosis of Liver	5	4	3	4	4	4	3	6	9	5	2	3	52
	Enlargement of Liver			2	1		1	1	1				2	8
	Liver Abscess	2	1	2		1	1		2		1	5	1	16
	Abdominal Abscess											1		1
	Hepatic Abscess	2		2	3	3	1	1	3		2	2	1	20
	Icterus Neonatorum						1							1
	Liver Complaint								1			1	1	3
	Appendicular Abscess								1				1	2
	Yellow Atrophy of Liver						1							1
	Ascites	2	1			2		2	2		1	3		13
	Intussusception								1					1

20—*continued.*

SPECIFIC CAUSES of DEATHS in 1915 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*continued.*

	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
	Pyorrhœa Alveolaris	1	...	...	...	...	...	2	...	...	...	1	...	4
421	Congestion of liver	1	...	...	...	...	...	...	2	...	...	1	2	6
	Hypertrophic Cirrhosis of liver	1	...	1	...	...	...	...	...	...	...	...	...	2
484	Atrophy of liver	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hydatic cyst liver	...	...	1	1	...	...	...	...	...	...	1	...	3
486	Jaundice	1	3	1	...	3	2	...	2	...	3	2	1	18
498	Hæmorrhage of the Pancrea	...	...	...	...	...	...	...	1	...	...	...	1	2
502	Peritonitis	1	1	1	2	2	4	3	...	3	5	7	5	34
	Perinium Abscess	...	...	...	...	...	...	...	1	...	...	...	...	1
	Suppurative Peritonitis	...	...	1	...	...	1	...	1	...	1	1	1	6
503	Dropsy	2	5	4	3	5	4	2	3	...	4	3	4	39
	Recto Peritorinial Sarcoma	...	...	1	...	...	...	...	...	...	...	...	...	1
	Diseases of the Lymphatic System.													
506	Spleen Enlargement	1	...	1	...	...	...	...	...	...	1	1	...	4
518	Lymphangitis	...	...	1	...	...	...	...	...	...	...	1	...	2
	Elephantiasis	...	3	...	...	1	...	...	...	...	...	1	...	5
526	Thymic enlargement	...	...	1	...	...	...	...	...	...	...	...	...	1
	Lymphatic Leuchæmia	...	...	1	...	...	...	...	...	1	...	...	...	2
	Diseases of the Urinary System.													
538	Acute Nephritis	3	3	3	2	2	2	3	2	3	5	8	...	33
539	Bright's Disease	18	24	22	9	8	18	5	13	15	13	21	20	181
	Granular kidney	...	...	...	...	...	...	1	1	...	...	1	1	4
	Supraplebic Prostateclomy	...	...	...	...	...	...	...	...	...	...	1	...	1
	Renal colic	...	...	...	...	...	...	...	...	1	...	...	...	1
	Kidney disease	1	...	1	1	...	...	...	1	1	...	1	...	6
	Hydro-pyo-nephrosis	...	1	...	...	...	...	...	...	...	...	...	...	1
	Pyo-Nephritis	...	...	...	...	...	1	...	...	...	...	...	1	2
	Chronic Intestinal Nephritis	...	...	...	1	...	...	2	...	...	...	...	...	3
541	Pyelitis	...	...	...	1	1	...	...	1	...	...	...	...	3
552	Suppression of Urine	...	...	...	...	...	...	...	1	1	1	...	...	3
	Uræmia	1	...	1	1	1	...	1	...	1	2	...	1	9
	Uræmic poisoning	...	...	...	...	...	...	...	...	1	...	...	...	1
556	Albuminuria	1	1	3	1	2	1	1	1	1	1	2	1	16
561	Cystitis	...	2	1	1	1	1	1	...	...	...	...	...	7
	Dropsy Renal	...	...	...	...	1	...	...	...	...	...	...	1	2
563	Sloughing of bladder	...	...	...	...	...	...	...	1	...	...	1	...	2
572	Calculus Vesical	...	1	...	...	...	...	...	...	...	1	...	1	3
574	Retention of Urine	...	...	...	...	...	...	...	...	...	...	...	2	2
	Filariasis	...	...	...	...	...	...	...	...	1	...	...	...	1
	Diseases of the Generative System.													
581	Stricture Urethra	...	...	...	...	...	...	...	...	...	...	...	...	...
	Orchitis	...	...	...	...	1	...	...	...	...	...	...	...	1
585	Extravasation of urine	1	1	...	1	2	...	1	...	1	1	1	...	9
610	Abscess scrotum	...	1	...	...	...	...	...	...	...	...	1	...	2
	Gangrene	...	...	...	...	...	1	...	...	...	...	...	...	1
611	Sloughing scrotum	...	...	...	...	...	...	...	1	...	...	1	3	5
617	Hydrocele	...	1	...	...	...	...	...	...	...	...	1	...	2
	Ovarian disease	...	...	...	...	...	1	2	1	...	...	...	...	4
639	Salpingitis	...	...	...	...	...	...	...	...	...	...	1	...	1

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SPECIFIC CAUSES of DEATHS in 1915 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*continued.*

	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
650	Abscess Pelvic	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pelvic Peritonitis	...	...	...	...	1	...	...	...	...	...	...	...	1
	„ Cellulitis	...	...	...	...	...	1	...	...	...	...	1	...	2
651	Rupture of Uterus during labour...	...	1	...	...	...	...	...	2	...	...	...	...	3
687	Leucorrhœa	...	...	...	...	...	...	.	...	2	1	1	...	4
	Pregnancy	...	...	1	...	...	...	...	...	...	1	...	...	2
700	Abortion	...	...	...	...	...	...	...	...	...	1	...	...	1
	Child-birth	...	...	...	...	1	...	...	...	...	...	...	...	1
	Extra uterine gestation	...	...	...	...	...	.	1	...	...	...	...	...	1
	Para Metritis Chronic	...	...	...	...	...	1	...	...	...	...	...	...	1
709	Pregnancy accidental Hæmorrhage	...	...	...	...	...	...	...	...	...	...	1	...	1
	Retention of the placenta... ...	...	...	...	...	...	...	...	...	...	1	...	...	1
	Placenta prævia	...	...	...	...	...	...	1	...	...	3	...	1	5
	Labour and exhaustion	1	...	...	...	...	..	...	...	1	...	1	3	6
	Debility after Labour	4	3	...	3	...	...	...	3	...	3	1	2	19
	Endometrites of Uterus	1	...	...	...	...	...	...	...	...	1	...	...	2
	Miscarriage	...	...	...	...	1	...	...	...	1	...	...	...	2
	Shock after operation of cross birth	...	...	...	...	...	...	...	1	...	...	...	...	1
	Carcinoma of Uterus	...	...	1	...	...	...	...	...	...	1	...	...	2
	Uterine Fibroma	...	...	...	...	...	1	...	...	...	...	...	...	1
712	Still-births	103	91	117	105	114	96	105	160	153	181	174	133	1,532
713	Asphyxia Livida	...	...	...	...	...	...	...	...	1	2	1	4	8
	Obstructed labour	...	...	1	...	...	...	...	...	1	...	...	...	2
714	Post-partum hæmorrhage	...	...	1	2	1	1	2	1	2	...	3	7	20
	Premature labour	2	...	...	...	...	...	...	...	...	...	...	...	2
	Difficult „	...	1	1	...	1	1	...	1	...	1	1	...	7
718	Sudden death after delivery ...	1	...	...	...	...	...	1	...	...	...	2	1	5
	Fibro Myoma Uteri	...	...	...	...	2	...	...	...	...	...	...	...	2
	Peri Urethal sinus	...	...	1	...	...	...	...	...	...	...	...	...	1
	Uterine Tumour	...	...	...	...	1	...	...	...	...	...	...	...	1
	DISEASES OF THE ORGANS OF LOCOMOTION AND CONNECTIVE TISSUE.													
734	Chronic Abscess	...	2	...	...	...	1	2	...	...	1	1	1	8
735	Caries Jaw	...	1	...	...	1	...	...	...	...	...	...	...	2
746	Arthritis	...	...	1	...	...	...	...	...	...	1	...	...	2
	Suppuration	...	...	...	...	...	...	...	1	...	...	...	...	1
	Synovitis Knee Joints	1	...	1	1	1	...	...	1	...	2	1	2	10
760	Caries of Spine	2	...	1	...	2	...	2	1	...	2	...	...	10
761	Necrosis	1	...	...	...	...	1	...	...	1	...	1	...	4

20—*concluded.*

SPECIFIC CAUSES of DEATHS in 1915 arranged according to the Nomenclature of Diseases drawn up by the Committee of the Royal College of Physicians of London—*concluded.*

	CAUSES OF DEATHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
768	Pott's Disease	...	...	...	1	...	...	...	...	...	...	...	1	2
798	Cellulitis face and neck	...	1	1	1	1	2	1	2	1	...	4	...	14
	„ Diffused septic	...	2	...	...	...	...	...	...	...	...	...	...	2
	Pelvic cellulitis	...	...	...	1	...	...	...	...	...	...	...	...	1
792	Abscess gonorrhœl	1	...	1	...	...	...	...	...	...	...	...	...	2
	Ischio Rectal cellulitis	...	...	...	1	...	...	...	...	...	...	...	...	1
	Dissemenated sclerosis	...	...	...	...	...	...	...	...	1	...	...	...	1
	Gangrene scrotum	...	1	...	...	...	...	...	...	...	...	...	...	1
800	Gangrene	1	1	1	...	1	...	2	1	3	2	2	2	16
	Diabetic gangrene	...	...	...	1	...	...	...	1	...	...	...	...	2
802	Anasarca	...	...	1	1	...	2	...	...	1	...	1	...	3
	Osteo Myelitis Tibia	...	...	...	...	1	...	...	...	...	...	...	...	1
	Boils	...	...	...	...	...	2	...	...	...	...	...	...	2
	OTHER LOCAL DISEASES.													
820	Scabies	...	...	...	...	...	...	...	...	...	...	2	...	2
846	Carbuncle	2	1	...	...	...	1	...	1	1	...	...	...	6
	Addison's Disease	...	...	...	...	...	...	1	...	...	...	...	...	1
	Sloughing ulcer leg	...	...	1	...	1	...	...	...	...	...	...	...	2
	„ neck	...	1	...	...	...	...	...	...	...	...	...	...	1
	Chronic Ulcer	...	...	...	1	...	1	...	...	...	...	...	1	3
	Injuries	...	...	...	...	...	...	...	...	...	...	...	...	...
	Drowning	6	3	6	8	6	7	6	12	6	8	5	4	77
	Burns and scalds	7	11	7	9	12	4	3	5	4	8	10	15	95
	Privation and Starvation	7	4	2	2	3	2	4	6	5	8	8	6	57
	Vehicles, horses and bullocks ...	10	8	10	15	11	12	9	13	8	12	10	9	127
	Ships, boats and docks, excluding drowning	...	1	1	...	...	2	...	...	...	...	...	4	8
	Fall from houses, trees, stairs, &c.	2	1	3	2	2	2	3	3	1	3	2	3	27
	Sunstroke	...	...	...	1	2	3	1	...	1	...	1	...	9
	Machinery	...	...	...	...	...	...	...	1	...	...	...	...	1
	Suffocation and strangulation ...	5	3	2	4	5	4	3	4	2	4	3	2	41
	Incised penetrating and multiple wounds	5	4	4	4	4	6	8	5	3	4	5	3	55
	Suicide other than drowning and poisoning	...	...	1	2	1	2	2	1	1	2	1	3	16
	Fall of earth, rocks, stones, bales, trees, &c., on body	2	1	...	1	2	2	3	1	2	3	1	1	19
	Gunshot wounds	...	...	1	...	1	2	1	7	4	...	3	11	30
	Poisons, poisoned vapours and animals	2	2	4	7	5	8	5	...	4	4	3	...	44
	Unspecified causes	5	3	7	...	1	...	3	3	4	2	3	1	32

TABLE of VACCINE OPERATIONS performed in the City of Bombay in 1915.

Ward.	SECTION.	Population (Census of 1911).	Number of Depôts in each District.	Number of Vaccinators in each District.	Number of persons vaccinated.			Average number of persons vaccinated by each Vaccinator.	Primary Vaccinations.								Re-vaccinations.			Percentage of successful cases where results were known.		Persons successfully vaccinated per 1,000 of population.	Average annual number of persons successfully vaccinated during the past 5 years.		Average annual number of deaths from Small-pox during the preceding 5 years.		Average cost of each successful Vaccination.
									Total.			Successful.																
					Males.	Females.	Total.		Males.	Females.	Total.	Under one year.	One year and under 6 years.	6 years and above.	Total.	Unknown.	Total.	Successful.	Unknown.	Primary Vaccinations.	Revaccinations.		Number.	Ratio per 1,000 of population.	Number.	Ratio per 1,000 of population.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
																											Rs. a. p.
A	Upper Colaba	1,557	1		875	249	1,124		191	202	393	274	87	1	362	20	731	3	724	97·05	42·86	17·19	390	18·37	...	...	
	Middle and Lower Colaba	19,679																							6	·31	
	Fort, South...	3,462			554	352	906		255	273	528	386	100	2	488	29	378	5	364	97·80	35·71	17·08	500	17·32	1	·28	
	Fort, North	25,400	1	1																					11	·42	
	Esplanade	17,761			3,097	496	3,593		105	97	202	154	26	1	161	36	3,891	...	3,890	96·99	.....	9·06	154	8·67	7	·42	
B	Mandvi	33,202	1		205	221	426		200	220	420	284	69	...	353	51	6	...	6	95·66	.....	10·63	410	12·35	12	·35	
	Chukla	24,231			205	200	405		180	198	378	254	81	1	336	39	27	...	27	99·12	.....	13·87	441	18·20	5	·19	
	Umarkhadi	45,679	1	1	601	542	1,143		485	516	1,001	765	162	1	928	50	142	1	140	97·58	50·00	20·34	898	19·66	16	·38	
	Dongri	27,246			814	315	1,129		296	301	597	504	50	...	554	30	532	...	532	97·71	.....	20·33	652	25·93	11	·38	
C	Market	30,172	1	1	360	227	587		198	193	391	251	102	5	358	25	196	...	194	97·81	.....	11·87	392	12·99	15	·48	
	Dhobi Talao	38,684			832	568	1,400		437	434	871	615	153	19	787	65	529	6	519	97·64	60·00	20·50	775	19·98	33	·86	
	Fanaswadi	27,403			469	333	802		284	282	566	389	123	7	519	35	236	1	235	97·74	100·00	18·98	503	18·36	18	·64	
	Bhuleshwar	36,459			285	255	540		276	247	523	358	125	3	486	28	17	1	16	98·18	100·00	13·36	485	13·30	10	·27	
	Khara Talao	22,979	1	1	271	289	560		215	277	492	365	72	...	437	41	68	...	67	96·90	.....	19·02	421	18·32	8	·33	
	Kumbharwada	27,703			406	402	808		344	377	721	585	80	1	666	42	87	...	86	98·09	.....	24·04	633	22·85	15	·52	
D	Khetwadi	31,937	1	...	435	403	838		329	348	677	515	110	8	633	28	161	1	154	97·53	14·29	19·85	641	20·07	17	·53	
	Girgaum	50,779			815	626	1,441		434	462	896	654	176	10	840	62	545	5	541	98·32	75·00	26·74	768	24·95	27	·89	
	Chowpati	11,397			231	202	433		163	168	331	239	70	1	310	13	102	...	99	97·48	.....	27·20	282	24·74	6	·51	
	Walkeshwar	10,640	1	...	217	137	354		139	117	256	199	42	3	244	8	98	...	98	98·38	.....	22·93	237	22·27	2	·18	
	Mahalakshmi	26,302			409	403	812		354	361	715	568	104	5	677	26	97	4	92	98·26	80·00	25·89	623	23·69	12	·46	
E	Mazagon	30,075	1	...	492	408	900		393	384	777	639	86	11	736	25	123	2	121	97·87	100·00	24·54	662	22·01	27	·89	
	Tarwadi	28,424			318	346	664		265	315	580	482	56	3	541	35	84	1	82	98·90	50·00	19·07	538	18·93	25	·89	
	2nd Nagpada	21,700																							9	·41	
	Kamathipura	36,751	1	1	851	890	1,771		801	868	1,669	1,320	227	5	1,552	95	102	3	95	98·60	42·86	18·04	1,497	17·36	27	·73	
	Tardeo	27,758																							18	·64	
	Byculla	75,848	1		840	758	1,598		682	710	1,392	1,105	158	...	1,363	91	206	9	191	97·08	60·00	15·56	1,300	15·90	21	1·20	
	1st Nagpada	6,414																							3	·51	
F	Parel	45,474	1		450	451	901		419	434	853	667	103	5	775	61	48	1	46	97·85	50·00	17·06	940	20·67	36	·78	
	Sewri	19,067			236	243	479		216	232	448	326	62	4	392	46	31	...	31	97·51	.....	20·56	434	22·76	8	·43	
	Sion	30,680	1	1	551	473	1,024		359	413	772	603	92	2	697	68	262	...	261	98·31	... ..	22·72	778	25·36	15	·48	
G	Mahim	30,492	1		762	787	1,549		674	775	1,449	1,097	192	24	1,313	96	100	...	99	97·04	.....	43·06	1,353	44·37	13	·42	
	Worli	89,611			714	760	1,474		696	744	1,440	1,182	152	9	1,343	65	34	...	34	97·67	.....	14·99	1,409	15·72	86	·77	
	Harbour, Docks, Railways and Homeless	44,979	...	...	4,244	225	4,469		217	193	410	91	34	...	125	284	4,059	97	3,943	99·21	83·62	4·94	540	12·01	9	·21	
	Total ...	9,79,445	14	6	20,569	11,561	32,130	5,355	9,607	10,141	19,748	14,831	2,894	131	17,856	1,487	12,382	138	12,177	97·78	67·32	18·37	18,654	19·05	579	·59	1 12 7

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TABLE of Births registered and of Vaccinations of Infants under one year of age performed in the year 1915.

Ward.	SECTION.	Total number of births exclusive of still-born.	Still-born.	Deaths under one year.	Number of Infants surviving.	Number of Infants vaccinated under one year.	Percentage of vaccinations to births registered.
A	Upper Colaba	94	4	18	76	300	85·47
	Middle and Lower Colaba	257	31	90	167		
	Fort, South	27	2	4	23	412	37·10
	Fort, North	587	46	155	432		
	Esplanade	258	21	64	194	147	56·97
B	Mandvi	401	39	216	185	387	64·03
	Chukla	458	42	173	285	280	61·13
	Umarkhadi	1,148	82	406	742	819	71·34
	Dongri	450	30	176	274	542	120·44
	Market	289	29	138	151	273	96·19
C	Dhobi Talao	817	66	238	579	667	81·64
	Fanaswadi	583	38	156	427	417	71·52
	Bhuleshwar	600	49	207	393	384	64·00
	Khara Talao	512	47	179	333	412	80·46
	Kumbharwada	550	47	208	342	634	115·27
D	Khetwadi	688	48	185	503	546	79·36
	Girgaum	662	43	212	450	687	103·77
	Chowpati	269	25	63	206	256	95·16
	Walkeshwar	226	25	64	162	208	92·03
	Mahalakshmi	620	44	171	449	600	96·77
E	Mazagon	766	64	255	511	671	87·59
	Tarwadi	869	46	315	545	515	59·88
	2nd Nagpada	491	60	191	300		
	Kamathipura	818	69	281	537	1,411	72·50
	Tardeo	687	47	198	489		
	Byculla	1,833	137	649	1,183	1,222	60·70
	1st Nagpada	181	8	43	138		
F	Parel	876	62	281	595	729	83·21
	Sewri	436	24	132	304	372	85·32
	Sion	813	47	220	593	665	81·79
G	Mahim	912	57	227	685	1,202	131·79
	Worli	1,934	153	685	1,249	1,265	65·40
	Harbour, Docks, Railways and Homeless	.....	.....	2	.....	278	.....
	Total ...	20,052	1,532	6,602	13,450	16,256	81·06

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TABLE of Primary Vaccinations performed with different kinds of Lymph in 1915.

	Number of operations.	Successful.	Unknown.	Percentage of success after deducting the unknown cases.
I Calf Lymph	4,830	4,398	357	98·32
II Glycerinated Lymph	14,918	13,458	1,130	97·60
III Lanolinated Lymph	.....	.....	.....	.....
IV Human Lymph	.....	.....	.....	.....
Total ...	19,748	17,856	1,487	97·78

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TABLE of prosecutions instituted by the Vaccination Department in 1915.

1	2	3	4	5	6	7
Section of the Act.	Nature of the Charge.	Number of Cases instituted.	Number of Cases discharged.	Otherwise.	Number of Cases convicted.	Amount of Fines inflicted.
Section VII of the Bombay Vaccination Act I of 1877.	Neglect of Vaccination	1	...	...	1	Rs. 10

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TABLE of DEATHS by Disease

Wards.	SECTIONS.	GENERAL DISEASES.																		
						FEVERS.														
		Small-pox.	Measles.	Plague.	Scarlet Fever.	Enteric Fever.	Malarial Fever.	Ague and Remittent Fever.	Relapsing Fever.	Influenza.	Whooping Cough.	Diphtheria.	Cholera.	Diarrhœa.	Dysentery.	Puerperal Septicæmia.	Leprosy.	Cancer.	Premature Birth.
A	Upper Colaba	...	...	...	...	2	1	1	...	...	...	...	...	2	4	...	...	...	1
	Middle and Lower Colaba...	3	1	81	...	6	8	28	...	...	...	...	...	15	9	1	...	3	10
	Fort, Southern	2	...	2	...	7	4	1	...	...	...	...	...	4	15	...	...	...	...
	Fort, Northern	10	...	19	...	8	10	67	...	...	...	...	...	40	5	3	...	3	10
	Esplanade	5	...	8	...	2	14	45	...	...	...	1	...	50	20	...	...	2	14
B	Mandvi	1	2	56	...	2	13	39	...	...	...	2	1	29	13	11	...	4	4
	Chukla	1	2	19	...	1	6	40	...	...	...	...	...	20	11	14	...	1	1
	Umarkhadi	7	1	43	...	3	10	99	...	...	1	...	...	92	31	24	...	1	7
	Dongri	...	1	17	...	...	3	29	...	...	...	...	...	12	11	3	...	1	8
C	Market	10	2	22	...	3	9	46	...	...	...	...	...	27	9	8	...	1	8
	Dhobi Talao	44	9	15	...	8	12	49	...	...	2	...	1	66	16	14	...	3	16
	Fanaswadi	16	5	15	...	4	3	39	...	...	2	...	...	41	12	1	...	4	4
	Bhuleshwar	2	1	28	...	1	3	47	...	...	...	...	...	72	20	13	1	4	11
	Khara Talao	3	...	10	...	2	...	40	...	...	...	...	...	49	14	17	...	1	4
	Kumbharwada	6	2	15	...	...	1	36	...	...	...	...	...	36	10	1	...	2	5
D	Khetwadi	14	1	11	...	10	5	44	...	...	1	...	2	31	13	6	3	3	13
	Girgaum	31	5	8	...	7	5	49	...	...	1	...	2	15	10	3	...	6	13
	Chowpati	10	...	3	...	3	2	10	...	...	...	...	...	9	1	2	...	2	9
	Walkeshwar	2	...	2	...	...	1	3	...	...	...	1	...	10	5	1	...	1	7
	Mahalakshmi	19	1	36	...	6	5	28	...	1	...	...	1	36	15	2	1	4	5
E	Mazagon	4	...	13	...	3	9	155	...	...	1	1	...	79	40	3	...	3	6
	Tarwadi	9	1	8	...	3	18	140	...	...	1	1	...	98	50	4	...	5	9
	2nd Nagpada...	11	...	3	...	1	2	58	...	...	...	...	...	45	8	2	...	...	...
	Kamathipura	28	1	16	...	1	3	99	...	...	...	...	1	81	26	9	...	1	4
	Tardeo	7	2	16	...	6	4	46	...	...	...	...	1	66	12	3	...	1	5
	Byculla	41	11	16	...	4	14	87	...	...	2	...	...	160	72	20	...	2	19
	1st Nagpada	3	2	1	...	2	...	7	...	...	...	...	...	11	3	3	...	1	3
F	Parel	8	...	7	...	2	16	109	...	...	...	...	1	62	28	6	...	1	4
	Sewri	8	...	6	...	...	4	42	...	...	...	...	1	24	13	4	...	...	...
	Sion	13	3	5	...	4	8	53	...	...	...	...	...	51	27	9	52	1	3
G	Mahim	3	1	39	...	3	4	44	...	...	...	...	1	92	33	6	...	5	4
	Worli	30	16	58	...	3	8	191	...	...	1	...	2	143	62	22	2	6	10
	Harbour, Docks, Railways and Homeless	9	...	1	...	2	3	8	...	...	...	...	2	3	10	...	...	...	...
	TOTAL ...	359	70	599	...	109	208	1,774	...	1	12	6	16	1,563	629	220	59	72	212

and Section in 1915.

Debility.	Old Age.	Tubercle of Lungs.	All other Tubercular Diseases.	Other General Diseases.	LOCAL DISEASES.													INJURIES.					Total
					Nervous System.	Diseases of the Eye, Ear and Nose.	Circulatory System.	Respiratory System.		Digestive System.	Lymphatic System.	Urinary System.	Generative System.	Still-born.	Organs of Locomotion and Connective Tissue.	Other Local Diseases.	General.		Local Injuries.	Poison.	Unspecified Causes.	
								Phthisis.	Other Diseases of the Respiratory System.								Drowning.	Other General Injuries.				
4	3	4	...	5	5	...	1	1	12	4	...	1	...	4	...	...	...	3	7	...	...	61
26	5	4	3	25	14	...	10	13	124	26	...	4	2	31	...	...	1	2	10	...	1	440
...	...	18	10	11	3	...	4	6	20	8	...	1	...	3	...	...	...	2	23	...	...	141
38	31	16	17	38	55	...	17	27	127	37	1	8	6	46	3	...	...	7	10	...	...	612
17	11	25	7	18	15	...	11	23	78	23	...	14	5	21	4	...	2	14	8	...	1	437
41	26	7	10	43	63	...	11	55	258	49	...	15	6	39	2	...	1	4	6	3	1	778
44	24	9	8	68	48	...	22	47	224	38	...	9	2	42	...	...	1	6	1	1	...	663
111	118	14	19	117	128	1	13	79	449	36	1	13	5	82	4	...	...	8	13	3	...	1,481
40	23	6	3	41	26	...	3	11	211	26	1	3	1	30	4	...	1	7	5	...	...	497
49	12	7	8	34	34	...	10	21	162	22	...	11	2	39	3	...	1	11	5	2	...	534
50	48	14	13	86	59	1	22	31	254	65	...	28	10	66	1	...	3	4	8	3	1	956
50	38	3	6	50	47	...	12	26	181	32	...	11	9	38	1	1	...	7	3	...	...	623
56	70	12	8	86	58	...	9	28	274	50	...	10	12	49	4	...	3	8	2	1	...	894
53	56	10	8	51	84	...	7	47	183	31	2	5	4	47	4	2	1	8	4	...	...	700
63	49	8	9	58	37	...	11	53	245	20	...	6	2	47	3	1	...	9	4	2	...	694
32	50	8	18	89	48	...	21	58	233	39	2	15	2	48	4	1	2	8	7	2	2	798
47	46	8	12	55	57	...	9	51	209	53	2	11	2	43	3	2	3	5	6	...	...	741
16	12	4	10	25	15	...	5	12	49	22	2	9	3	25	2	...	2	4	...	...	1	244
12	9	1	4	20	21	...	9	15	67	20	1	4	3	25	2	...	1	4	1	1	...	229
49	21	8	5	58	51	1	8	35	138	30	...	8	4	44	2	...	1	6	...	1	...	586
67	40	4	4	29	51	...	8	3	192	22	...	3	3	64	2	...	1	11	6	1	1	765
114	33	37	22	48	70	1	15	10	228	54	1	11	9	46	3	...	4	50	13	3	2	1,075
42	52	6	15	93	76	...	1	38	211	34	...	5	4	60	2	1	...	7	4	2	...	718
95	56	10	16	70	71	...	13	145	311	48	...	1	2	69	6	...	2	8	5	4	...	1,133
50	29	5	5	80	51	...	7	53	207	39	...	7	2	47	2	...	5	6	2	1	1	721
229	142	15	22	234	113	1	18	49	644	48	...	14	13	187	8	2	3	13	8	4	3	2,031
11	6	1	1	18	14	...	2	2	45	5	...	3	...	8	...	...	...	6	2	1	...	152
148	26	12	10	94	27	...	11	15	279	18	...	10	2	62	...	1	4	12	6	1	...	920
55	11	1	3	31	12	...	2	2	120	6	...	2	1	24	1	1	2	7	2	...	1	362
108	15	2	3	54	25	...	10	24	196	34	...	10	3	47	3	...	7	6	4	2	3	738
75	43	5	7	41	54	...	13	22	241	25	...	14	...	57	5	2	8	13	4	2	2	811
254	134	8	11	132	102	1	21	105	582	57	1	14	8	153	7	1	9	10	16	4	3	2,084
1	2	5	2	4	2	...	3	2	16	2	...	3	...	...	...	...	9	6	3	...	9	112
2,047	1,241	297	299	1,901	1,536	6	339	1,114	6,776	1,053	14	283	127	1,532	89	15	77	282	203	44	32	23,681

TABLE of DEATHS by Race, Cause and Sex in 1915.

RACE OR CASTE.	GENERAL DISEASES.																			
	Small-pox.		Measles.		Plague.		Fevers										Influenza.		Whooping Cough.	
							Scarlet Fever.		Enteric Fever.		Malarial Fever.		Ague and Remittent Fever.		Relapsing Fever.					
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Jains	1	1	...	2	47	6	...	...	7	3	11	6	45	21	...	...	...	...	...	...
Brahmins	14	11	4	1	18	8	...	...	3	...	6	5	65	30	...	...	...	...	1	...
Lingaits	...	...	...	...	2	2	...	...	...	1	...	1	4	6	...	...	...	...	...	...
Bhatias	...	...	...	...	5	...	...	...	1	2	1	...	7	8	...	...	...	...	...	...
Hindus of other Castes	116	71	17	16	245	96	...	...	18	2	61	27	551	341	...	...	...	...	1	2
Hindus, Low Caste	19	13	10	4	34	17	...	...	...	1	4	6	131	87	...	...	...	...	...	...
Mussulmans	28	17	2	4	70	18	...	...	8	1	32	14	176	153	...	...	...	...	...	1
Parsees	4	4	2	...	5	2	...	...	17	11	9	6	16	28	...	...	1	...	1	1
Jews	1	1	...	...	1	...	...	...	2	1	...	...	5	6	...	...	...	...	...	...
Native Christians	29	25	3	2	14	7	...	...	12	3	10	4	39	47	...	...	...	...	1	3
Eurasians	...	1	2	...	...	2	...	...	2	3	2	1	2	1	...	...	...	...	1	...
Europeans	2	1	1	...	...	...	...	...	7	4	1	...	...	3	...	...	...	...	...	...
Negro-Africans	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Buddhists	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Other and Unknown Castes ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
All Castes ... Males	214	...	41	...	441	...	...	...	77	...	138	...	1,043	...	...	...	1	...	5	...
All Castes ... Females	...	145	...	29	...	158	...	...	...	32	...	70	...	731	...	...	...	...	...	7
All Castes ... Persons	359		70		599		...		109		208		1,774		...		1		12	

26—*continued.*

TABLE of DEATHS by Race, Cause and Sex in 1915—*continued.*

RACE OR CASTE.	GENERAL DISEASES—*contd.*																			
	Diphtheria.		Cholera.		Diarrhœa.		Dysentery.		Puerperal Septicæmia.		Leprosy.		Cancer.		Premature Birth.		Debility.		Old Age.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females	Males.	Females.
Jains	1	1	...	...	24	25	7	6	...	9	...	...	2	1	6	2	32	31	21	10
Brahmins	...	...	2	...	31	21	15	8	...	8	...	...	...	3	6	6	26	29	20	15
Lingaits	...	...	...	...	1	3	3	1	...	2	...	...	...	...	...	1	3	2	1	3
Bhatias	...	...	...	...	7	6	2	3	...	4	...	...	...	...	...	...	6	9	2	8
Hindus of other Castes	1	1	8	3	338	312	197	99	...	96	34	9	11	19	43	39	569	457	225	346
Hindus, Low Caste	...	...	1	...	114	119	43	33	...	12	5	3	...	1	15	17	184	150	41	71
Mussulmans	...	...	1	1	207	184	90	58	...	75	3	...	2	4	7	9	231	167	202	183
Parsees	...	...	...	...	33	40	13	10	...	1	...	1	4	14	16	11	9	8	19	35
Jews	...	...	...	...	2	4	...	4	...	3	...	...	...	...	1	1	8	6	5	5
Native Christians	1	...	...	...	45	42	18	8	...	8	2	2	7	2	12	13	44	64	12	14
Eurasians	...	...	...	...	4	...	3	2	...	1	...	...	...	...	2	1	2	...	...	1
Europeans	...	1	...	...	3	1	7	...	...	...	...	...	2	...	2	...	1	2	2	...
Negro-Africans	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...
Buddhists	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Other and Unknown Castes ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...
All Castes... Males	3	...	12	...	809	...	397	...	...	...	44	...	28	...	111	...	1,121	...	550	...
All Castes... Females	...	3	...	4	...	757	...	232	...	220	...	15	...	44	...	101	...	926	...	691
All Castes... Persons	6		16		1,566		629		220		59		72		212		2,047		1,241	

TABLE of DEATHS by Race, Cause and Sex in 1915—*continued.*

RACE OR CASTE.	GENERAL DISEASES—*concluded.*						LOCAL DISEASES.													
	Tubercle of Lungs.		Other Tubercular Diseases.		Other General Diseases.		Nervous System		Diseases of the Eye, Ear and Nose.		Circulatory System.		Respiratory System. Phthisis.		Respiratory System. Other Diseases of the Respiratory System.		Digestive System.		Lymphatic System.		Urinary System	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Jains	1	3	4	6	28	25	53	24	...	...	10	4	4	29	161	112	36	12	...	1	5	6
Brahmins	3	6	3	7	37	49	47	27	1	...	13	3	21	32	173	100	28	18	1	...	8	7
Lingaits	...	...	...	...	3	3	5	...	...	...	2	...	5	6	22	18	1	1	...	...	1	...
Bhatias	...	...	...	2	7	5	9	13	...	...	5	...	1	8	22	23	6	11	...	...	2	3
Hindus of other Castes	90	37	66	45	337	412	297	242	1	1	63	23	216	261	1,898	1,380	243	146	3	1	57	43
Hindus, Low Caste	5	4	5	6	85	92	85	68	...	..	11	2	56	72	487	445	49	53	...	...	12	5
Mussulmans	55	29	59	39	209	346	262	202	...	1	53	15	121	238	863	614	136	93	2	...	42	16
Parsees	2	10	10	17	47	60	52	39	1	1	38	24	5	9	66	96	44	28	2	4	19	14
Jews	...	3	1	...	6	9	11	4	...	...	1	...	1	2	18	16	5	6	...	...	3	1
Native Christians	14	18	13	14	38	31	57	35	...	...	31	19	10	17	128	84	52	35	...	...	19	13
Eurasians	5	3	...	...	4	2	2	3	...	...	4	1	3	1	9	8	7	11	...	...	2	2
Europeans	6	2	1	1	8	6	13	5	...	...	8	3	...	1	9	5	17	12	...	...	3	1
Negro-Africans	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2	1	...	...	...	...	...	...
Buddhists	...	1	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1	...	...	...	...	...
Other and Unknown Castes	...	...	...	...	...	...	...	1	...	...	...	...	...	...	4	4	2	...	...	...	...	...
All Castes — Males	181	...	162	...	859	...	873	...	3	...	245	...	443	...	3,864	...	627	...	8	...	173	...
All Castes — Females	...	116	...	137	...	1,042	...	663	...	3	...	94	...	671	...	2,906	...	426	...	6	...	110
All Castes — Persons	297		299		1,901		1,536		6		339		1,114		6,770		1,053		14		283	

TABLE of DEATHS by Race, Cause and Sex in 1915—*concluded.*

RACE OR CASTE.	LOCAL DISEASES—*concld.*								INJURIES.													
	Generative System.		*Still-born.*		Organs of Locomotion and Connective Tissue.		Other Local Diseases.		General.				Local Injuries.		Poisons.		Unspecified Causes.		All Causes.			
									Drowning.		Other General Injuries.											
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Persons.
Jains	1	9	29	12	3	3	...	...	1	...	3	5	4	1	2	...	...	...	526	364	890
Brahmins	...	3	24	23	2	...	1	1	2	...	5	9	5	...	2	1	1	...	564	408	972
Lingaits	...	...	3	3	...	1	...	...	1	...	...	...	1	...	...	...	...	...	60	51	111
Bhatias	3	2	6	2	...	...	...	...	...	...	1	1	2	...	...	...	...	...	89	107	196
Hindus of other Castes ...	7	35	290	283	19	15	4	3	27	14	95	39	66	17	17	8	17	4	6,008	4,662	10,670
Hindus, Low Caste ...	2	8	113	105	6	2	2	...	6	1	7	12	17	4	2	3	1	...	1,439	1,311	2,750
Mussulmans	7	25	186	158	10	12	3	...	15	1	43	19	41	8	2	2	5	...	2,987	2,544	5,531
Parsees	1	10	29	28	5	2	1	...	4	1	4	8	9	3	2	1	...	...	460	499	959
Jews	...	2	14	3	...	...	...	...	...	...	1	1	...	...	...	...	...	...	72	75	147
Native Christians ...	...	9	47	53	4	5	...	...	2	...	6	4	9	...	1	1	1	...	614	529	1,143
Eurasians	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	58	44	102
Europeans	...	1	2	4	...	...	...	...	...	...	7	...	18	...	...	...	...	...	113	49	162
Negro-Africans	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	5	4	9
Buddhists	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	7	1	8
Other & Unknown Castes.	...	...	24	10	...	...	...	...	1	...	6	6	1	...	...	...	3	...	18	13	31
All Castes... Males ...	23	...	867	...	49	...	11	...	60	...	178	...	170	...	28	...	28	...	13,020	...	
All Castes... Females ...	...	104	...	665	...	40	...	4	...	17	...	104	...	33	...	16	...	4	...	10,661	
All Castes... Persons ...	127		1,532		89		15		77		282		203		44		32		23,681		

TABLE of DEATHS by Age, Sex and Cause in 1915.

AGE.		GENERAL DISEASES.																			
		Small-pox.		Measles.		Plague.		Fevers, Scarlet Fever.		Enteric Fever.		Malarial Fever.		Ague and Remittent Fever.		Relapsing Fever.		Influenza.		Whooping Cough.	
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
DAYS	1 to 30	1	1	...	...	...	...	...	...	...	...	...	...	4	13	...	...	1	...	...	...
MONTHS	1 to 6	15	15	7	1	...	1	...	...	...	...	1	2	27	32	...	...	...	...	1	2
	7 to 12	15	17	15	11	...	...	...	...	1	...	3	1	40	46	...	...	...	...	1	4
YEARS	1 to 2	11	20	9	10	...	1	...	...	1	2	3	2	26	28	...	...	...	...	1	1
	2 to 3	8	4	3	3	2	1	...	...	1	...	...	2	11	11	...	...	...	...	2	...
	3 to 4	4	8	1	1	1	...	...	...	...	1	...	2	9	11	...	...	...	...	...	...
	4 to 5	5	2	1	1	2	2	...	...	1	...	2	...	6	15	...	...	...	...	...	...
	5 to 10	10	16	2	1	16	24	...	...	3	2	3	7	57	73	...	...	...	...	...	...
	10 to 15	8	9	2	...	47	28	...	...	4	3	5	4	49	60	...	...	...	...	...	...
	15 to 20	48	14	1	...	85	27	...	...	11	9	17	14	154	98	...	...	...	...	...	...
	20 to 25	45	13	...	1	109	22	...	...	17	8	21	7	187	89	...	...	...	...	...	...
	25 to 30	24	12	...	...	74	13	...	...	14	2	15	10	147	78	...	...	...	...	...	...
	30 to 35	7	8	...	...	34	12	...	...	7	1	17	2	87	53	...	...	...	...	...	...
	35 to 40	8	2	...	...	29	11	...	...	4	...	13	4	77	38	...	...	...	...	...	...
	40 to 45	3	1	...	...	16	5	...	...	5	1	8	2	41	18	...	...	...	...	...	...
	45 to 50	3	2	...	...	15	3	...	...	3	1	9	1	45	22	...	...	...	...	...	...
	50 to 55	...	1	...	...	5	3	...	...	2	...	3	1	20	8	...	...	...	...	...	...
	55 to 60	...	...	...	...	4	2	...	...	...	2	5	1	32	15	...	...	...	...	...	...
	60 & over	1	...	...	...	2	3	...	...	3	...	8	8	34	23	...	...	...	...	...	...
	Unspecified Age	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
ALL AGES.	Males	214	...	41	...	441	...	...	...	77	...	138	...	1,043	...	...	...	1	...	5	...
	Females	...	145	...	29	...	158	...	...	...	32	...	70	...	731	...	...	...	...	...	7
	Persons	359		70		599		...		109		208		1,774		...		1		12	

TABLE of DEATHS by Age, Sex and Cause in 1915—*continued.*

AGE.		GENERAL DISEASES—*contd.*																	
		Diphtheria.		Cholera.		Diarrhœa.		Dysentery.		Puerperal Septicæmia.		Leprosy.		Cancer.		Premature Birth.		Debility.		Old Age.	
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
DAYS	1 to 30	...	...	...	...	6	15	...	...	...	...	...	...	...	...	108	99	987	781	...	...
MONTHS	1 to 6	...	...	...	...	77	54	9	6	...	...	...	...	...	...	2	2	104	108	...	...
	7 to 12	...	...	...	...	143	156	19	16	...	...	...	...	...	...	1	...	11	11	...	...
YEARS	1 to 2	...	2	1	...	...	91	99	32	30	...	...	...	...	...	...	...	6	6	...	...
	2 to 3	...	...	...	...	...	33	45	21	20	...	...	...	...	...	...	...	1	1	...	...
	3 to 4	...	1	1	...	...	14	15	7	10	...	...	...	...	...	...	...	...	1	...	...
	4 to 5	...	...	...	...	...	6	8	9	6	...	...	...	...	...	...	...	...	...	...	...
	5 to 10	...	..	1	...	...	8	30	20	26	...	...	...	...	...	1	...	...	...	...	...
	10 to 15	..	...	...	...	...	8	22	5	10	...	2	2	1	...	...	...	...	...	...	...
	15 to 20	...	...	...	..	1	26	51	23	16	...	69	2	...	...	...	...	...	1	...	...
	20 to 25	...	...	...	3	...	32	36	46	15	...	88	7	1	...	1	...	...	4	...	...
	25 to 30	...	...	...	1	1	48	40	54	24	...	46	5	3	4	3	...	1	2	...	...
	30 to 35	...	...	...	...	...	51	29	37	13	...	8	6	4	...	6	...	4	2	...	...
	35 to 40	...	...	...	1	...	41	30	32	7	...	5	12	2	1	10	...	1	1	...	...
	40 to 45	...	...	...	4	...	28	16	15	14	...	2	2	1	3	5	...	1	...	...	...
	45 to 50	...	...	...	2	...	47	32	21	10	...	...	4	1	6	6	...	5	8	...	...
	50 to 55	...	...	...	1	1	38	21	10	2	...	...	...	2	3	4	...	...	...	9	6
	55 to 60	...	...	...	...	...	53	30	20	8	...	...	2	...	2	4	...	...	...	77	81
	60 and over	...	...	...	...	1	60	48	17	9	...	...	2	...	9	4	...	...	...	464	604
	Unspecified Age	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
ALL AGES.	Males	...	3	...	12	...	809	...	397	...	...	...	44	...	28	...	111	...	1,121	...	550	...
	Females	...	...	3	...	4	...	757	...	232	...	220	...	15	...	44	...	101	...	923	...	691
	Persons	...	6		16		1,566		629		220		59		72		212		2,047		1,241	

TABLE of DEATHS by Age, Sex and Cause in 1915—*continued.*

AGE.		GENERAL DISEASES—*concld.*						LOCAL DISEASES.													
		Tubercle of Lung.		Other Tubercular Diseases.		Other General Diseases.		Nervous System.		Diseases of the Eye, Ear and Nose.		Circulatory System.		Respiratory System.				Digestive System.		Lymphatic System.		Urinary System.	
														Phthisis.		Other Diseases of the Respiratory System.							
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
DAYS	1 to 30	...	...	...	...	9	8	159	117	...	...	1	4	...	...	31	32	13	7	...	...	...	...
MONTHS	1 to 6	...	1	2	...	37	36	301	229	...	...	3	1	...	...	446	411	29	16	...	...	...	2
	7 to 12	...	...	2	2	102	81	118	82	...	1	...	3	...	...	525	561	102	96	...	...	...	1
YEARS	1 to 2	...	...	1	3	146	152	44	38	...	...	...	2	...	...	297	303	53	73	2	...	...	2
	2 to 3	1	1	1	...	69	95	6	9	...	...	...	1	...	1	79	90	7	5	...	...	...	...
	3 to 4	...	1	1	1	30	54	1	9	...	...	1	...	...	...	29	45	3	2	...	...	3	...
	4 to 5	...	...	2	1	18	16	4	3	...	...	...	...	...	1	27	48	2	2	...	...	...	...
	5 to 10	...	2	6	19	35	56	10	10	...	1	2	2	4	18	94	96	14	13	...	...	1	2
	10 to 15	3	10	4	13	28	52	2	5	..	...	2	3	11	46	65	51	14	8	...	...	1	2
	15 to 20	15	29	15	21	49	99	11	24	...	...	8	4	54	141	179	92	24	27	2	...	8	12
	20 to 25	41	23	41	33	53	133	18	22	1	...	15	4	82	155	237	107	49	35	...	2	13	19
	25 to 30	48	17	31	23	80	119	17	13	1	...	28	15	108	124	242	98	59	30	...	...	21	9
	30 to 35	23	8	21	11	41	51	21	14	...	...	31	11	75	77	187	67	47	27	1	...	21	7
	35 to 40	20	8	11	9	43	28	23	12	...	...	29	9	52	65	228	105	48	21	...	...	17	7
	40 to 45	9	3	9	4	32	11	17	10	...	...	26	7	26	27	176	80	31	12	...	...	9	8
	45 to 50	10	7	9	2	30	18	32	12	1	...	34	5	21	9	300	168	53	20	...	...	31	6
	50 to 55	3	2	2	...	17	10	13	5	...	...	17	4	5	3	143	78	28	9	1	2	11	5
	55 to 60	6	2	3	1	18	11	23	15	...	1	21	3	3	2	315	236	20	12	1	...	19	9
	60 and over	1	2	1	3	22	17	53	34	...	...	27	16	2	3	269	243	31	12	1	2	19	19
	Unspecified Age	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
ALL AGES.	Males	181	...	162	...	859	...	873	...	3	...	245	...	443	...	3,864	...	627	...	8	...	173	...
	Females	...	116	...	137	...	1,042	...	663	...	3	...	94	...	671	...	2,906	...	426	...	6	...	110
	Persons	297		299		1,901		1,536		6		339		1,114		6,770		1,053		14		283	

TABLE of DEATHS by Age, Sex and Cause in 1915—*concluded.*

AGE.		LOCAL DISEASES—*concluded.*								INJURIES.												All Ages.
		Generative System.		Still-born.		Organs of Locomotion and Connective Tissue.		Other Local Diseases.		General.				Local Injuries.		Poisons.		Unspecified Causes.		All Causes.		
										Drowning.		Other General Injuries.										
		Males.	Females.	Males.	Females	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females	Males.	Females	Males.	Females.	Males.	Females.	Males.	Females.	Persons.
DAYS	1 to 30	6	2	...	...	1	...	1	...	...	...	6	4	2	1	...	...	2	...	1,338	1,079	2,417
MONTHS	1 to 6	1	...	...	...	2	1	1	...	...	...	3	...	...	1	...	...	1	...	1,069	921	1,990
	7 to 12	...	...	...	...	...	1	...	1	...	...	1	3	...	...	1	...	1	...	1,101	1,094	2,195
YEARS	1 to 2	1	...	...	...	1	...	...	...	1	1	3	1	...	...	1	...	...	...	732	774	1,506
	2 to 3	...	...	...	...	1	...	...	...	1	1	4	3	2	1	...	...	...	...	252	294	546
	3 to 4	...	...	...	...	...	1	...	...	2	...	...	4	5	...	...	...	...	...	112	167	279
	4 to 5	...	...	...	...	...	...	...	...	...	...	8	4	1	1	...	...	...	...	94	110	204
	5 to 10	1	...	...	...	2	1	1	1	4	1	9	9	4	10	...	1	...	...	309	414	723
	10 to 15	...	...	...	...	3	2	...	...	4	2	10	7	11	3	1	1	...	...	289	344	633
	15 to 20	...	17	...	...	...	6	...	...	9	7	9	19	14	1	2	6	1	1	767	786	1,553
	20 to 25	...	27	...	...	5	5	1	...	12	2	15	13	37	...	6	4	3	1	1,093	870	1,963
	25 to 30	1	26	...	...	6	4	1	1	11	1	31	3	30	2	5	...	3	1	1,110	715	1,825
	30 to 35	1	16	...	...	8	5	1	...	9	...	23	3	21	2	5	3	1	...	787	440	1,227
	35 to 40	2	9	...	...	6	3	...	...	5	...	13	4	8	1	1	1	6	...	725	392	1,117
	40 to 45	...	3	...	...	...	3	...	...	1	...	10	7	13	...	1	...	3	...	489	230	719
	45 to 50	3	1	...	...	2	1	1	...	1	1	10	6	5	2	2	...	4	...	709	344	1,053
	50 to 55	1	2	...	...	3	2	...	...	...	1	6	4	3	...	1	...	1	...	346	176	522
	55 to 60	2	1	...	...	4	3	3	1	...	...	12	5	4	3	1	...	1	1	651	449	1,100
	60 & over	4	...	...	...	5	2	1	...	...	...	6	5	10	5	1	...	...	...	1,043	1,062	2,105
Unspecified Age		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	4	...	4
ALL AGES.	Males	23	...	867	...	49	...	11	...	60	...	178	...	170	...	28	...	28	...	13,020	...	
	Females	...	104	...	665	...	40	...	4	...	17	...	104	...	33	...	16	...	4	...	10,661	
	Persons	127		1,532		89		15		77		282		203		44		32		23,681		23,681

TABLE of DEATHS by DISEASE and

Title of Orders.	Occupation or Trade of Family.	GENERAL DISEASES.															
					FEVER.												
		Small-pox.	Measles.	Plague.	Scarlet Fever.	Enteric Fever.	Malarial Fever.	Ague and Remittent Fever.	Relapsing Fever.	Influenza.	Whooping Cough.	Diphtheria.	Cholera.	Diarrhœa.	Dysentery.	Puerperal Septicæmia.	Leprosy.
Professional General	1 (a) Imperial Government Officials, Clerks, &c.	1	..	2	..		..	3	..	..	..	..	..	..	1	..	..
Government	2 (b) Foreign Government Consuls, &c.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3 (c) Native States, Chiefs, Staffs, Retinue, &c.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	4 (d) Mul. and Local Government Police, &c.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Post and Telegraph Office Peons, &c.	2	..	8	..	..	1	6	..	..	..	..	..	6	2	..	..
Defence	5 (a) Army	..	..	..	..	6	4	1	..	..	..	..	1	6	24	..	..
	6 (b) Navy	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..
Learned Professions.	7 (a) Ministers of Religions, Professors, &c.	..	..	2	..	2	2	3	..	..	..	..	..	7	6	..	..
	8 (b) Law, Medical Literature (Science), &c.	..	..	..	..	1	1	..	..	..	..	..	..	..	1	..	..
	9 (c) Unlicensed Practitioners, Dentists, Opticians, Nurses, &c.	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..
Commercial	10 (a) General Merchants in Special Goods	2	..	9	..	6	1	18	..	..	..	..	..	10	2	..	..
	11 (b) Bankers, Accountants, Clerks, Capitalists, Shroffs, &c.	1	..	3	..	3	4	24	..	..	..	..	..	18	3	..	..
	12 (c) Shopkeepers, other General Dealers, Hawkers, &c.	2	1	30	..	3	10	51	..	..	..	..	1	27	20	3	..
	13 (d) Intoxicating Drinks and Drugs Dealers	..	..	..	..	..	..	1	..	..	..	..	..	4	..	..	..
	14 (e) Vegetable Food Dealers	..	..	4	..	..	..	2	..	..	..	..	..	2	..	1	..
	15 (f) Vegetable Substance Makers and Dealers	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
	16 (g) Animal Food Dealers, Fishers, &c.	..	..	15	..	..	..	8	..	..	..	..	..	5	5	3	3
	17 (h) Animal Substance Makers and Dealers	4	..	1	..	..	..	8	..	..	..	..	..	2	5	..	..
	18 (i) Entertainers, Hotel, Club, Refreshment House Keepers	..	..	..	..	..	1	6	..	..	..	..	..	1	2	..	..
	19 (j) Carriers on Road, Horse, Carriage, Cart Keepers	4	..	10	..	1	4	48	..	..	..	..	1	16	10	1	..
	20 (k) Carriers on Seas, Boatmen, Seamen, &c.	4	..	2	..	2	1	10	..	..	..	..	..	4	3	..	..
Railway	21 (a) Officials, Clerks, &c.	..	..	1	..	1	..	1	..	..	..	..	..	1	..	..	..
	22 (b) Workshop Servants, &c.	..	..	..	..	1	1	5	..	..	..	..	..	3	1	..	..
	23 (c) Labourers, Earth-workers, &c.	1	..	2	..	..	..	2	..	..	..	..	..	1	..	..	..
Port and Improvement Trusts and Harbour.	24 (a) Officials, Clerks, &c.	..	..	..	..	..	..	1	..	..	..	..	..	1	1	..	..
	25 (b) General Labourers, &c.	1	..	1	..	..	..	11	..	..	..	..	..	1	3	..	..
Tramway	26 (a) Officials, Clerks, &c.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	27 (b) General Labourers	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Industrial	28 (a) Metal, &c., Workshop-keepers, Mechanical Tools Makers	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	29 (b) Metal, &c., Workshop Servants, Labourers, &c.	4	..	7	..	1	3	20	..	..	..	..	..	11	5	..	..
	30 (a) Mills (Cotton, Silk, &c.). Masters, Managers, Clerks, &c.	..	..	2	..	..	1	..	..	..	..	..	..	..	..	..	..
	31 (b) Weavers, Spinners and other Workers	28	..	57	..	2	12	249	..	..	..	..	1	50	48	9	4
	32 (c) Presses (Printing, &c.), Printers, &c.	2	..	3	..	1	..	7	..	..	..	..	..	3	4	..	1
	33 (b) Other General Labourers	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

OCCUPATION in 1915.

Cancer.	Premature Birth.	Debility.	Old Age.	Tubercle of Lungs.	Other Tubercular Diseases.	Other General Diseases.	LOCAL DISEASES. Nervous System.	Diseases of the Eye, Ear and Nose.	Circulatory System.	Respiratory System. Phthisis.	Other Diseases of the Respiratory System.	Digestive System.	Lymphatic System.	Urinary System.	Generative System.	Still-born.	Organs of Locomotion and Connective Tissue.	Other Local Diseases.	Injuries. General. Drowning.	Other General Injuries.	Local Injuries.	Poison.	Unspecified Causes.	TOTAL.
..	..	..	...	..	1	3	2	..	3	2	3	3	..	1	..	..	..	..	..	..	..	.	..	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	...	..	..	..	..	...	..	..	..	..	..	...	..	..	..
..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	2
..	..	..	3	3	2	7	2	..	4	4	31	4	..	2	..	..	..	..	..	4	2	1	..	92
..	..	..	1	23	6	10	3	..	6	1	14	6	..	2	..	..	..	..	1	3	28	..	..	146
..	...	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
..	..	..	6	2	7	6	5	..	5	2	22	11	..	4	..	...	..	1	..	2	2	1	1	99
..	..	..	1	..	1	4	3	..	3	...	1	4	..	2	..	..	..	..	..	..	1	..	..	23
..	..	..	4	..	1	1	2	..	2	..	9	2	...	2	..	..	1	..	..	..	...	..	..	26
2	..	..	11	1	4	15	13	..	17	6	71	17	..	9	1	..	3	..	1	6	3	1	..	229
4	..	..	15	4	3	19	21	1	12	9	54	18	1	7	2	..	2	..	4	5	5	3	..	260
2	..	2	62	5	11	23	16	..	24	29	176	40	1	11	2	..	5	2	1	5	6	2	..	578
..	..	..	2	..	..	2	1	..	2	3	8	4	..	..	..	..	..	..	..	2	1	..	..	30
..	..	..	3	1	..	..	..	..	..	3	11	..	..	..	..	..	..	..	..	..	..	1	..	28
..	..	..	..	..	..	..	..	..	..	1	8	1	..	..	..	..	..	..	..	..	..	..	..	11
..	..	..	7	..	1	6	2	..	1	7	21	4	..	...	..	..	2	..	..	1	..	..	1	92
1	..	..	6	..	3	3	1	..	1	5	25	7	..	2	..	..	..	..	..	1	..	..	..	75
..	..	..	4	3	1	3	1	..	1	3	14	7	..	1	..	..	..	..	..	.	..	..	..	48
1	..	..	16	3	1	26	5	..	7	15	95	10	..	2	..	..	..	..	..	3	2	..	..	281
..	..	...	3	3	3	3	4	..	1	2	42	6	..	6	..	..	..	..	2	3	6	1	3	114
1	..	..	1	1	..	2	2	..	2	..	6	2	..	..	..	..	..	..	..	..	1	..	..	22
1	..	1	3	..	...	..	5	..	5	2	14	2	..	2	..	..	..	..	..	2	2	..	..	49
..	..	..	1	..	..	3	1	..	..	3	13	3	..	..	..	..	..	1	1	3	..	..	..	35
..	..	..	...	1	..	...	2	..	1	2	2	2	..	1	..	..	..	..	..	..	..	..	..	14
..	..	..	1	2	2	4	1	..	1	4	17	3	..	1	..	..	1	..	...	3	2	..	..	59
..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	...	..	2	1	..	..	..	..	1	5	3	..	..	..	..	..	..	..	..	..	..	..	13
..	..	..	1	1	...	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	5
1	..	1	5	9	7	10	2	..	8	11	52	8	..	4	..	..	...	..	4	5	3	1	..	182
1	..	..	2	..	..	..	1	..	2	1	5	3	..	1	..	..	..	..	..	..	1	..	..	20
2	..	1	82	10	15	101	21	..	16	110	401	40	..	13	4	..	4	2	14	9	12	3	3	1,328
..	..	..	5	3	4	10	..	..	3	9	17	2	..	..	..	..	..	..	..	..	..	..	..	74
..	..	..	1	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	1	..	1	..	..	5

TABLE of Deaths by DISEASE and

Title of Orders.	Occupation or Trade of Family.	GENERAL DISEASES.																
					FEVER.													
		Small-pox.	Measles.	Plague.	Scarlet Fever.	Enteric Fever.	Malarial Fever.	Ague and Remittent Fever.	Relapsing Fever.	Influenza.	Whooping Cough.	Diphtheria.	Cholera.	Diarrhœa.	Dysentery.	Puerperal Septicæmia.	Leprosy.
Art	34 (a) Engineers, Photographers, Electricians, Architects	1	..	..	..	..	..	2	..	..	..	..	..	1	1	..	..
	35 (b) Builders in Boats, Houses, Coaches, &c.	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
	36 (c) Watchmakers, Gilders, Engravers, &c.	..	..	..	..	1	..	..	..	..	..	..	..	..	3	..	..
	37 (d) Metal Workers	2	..	4	..	..	1	19	..	..	..	..	..	9	5	..	..
	38 (e) Wood Workers	3	..	13	..	3	1	24	..	..	..	..	..	10	6	2	1
	39 (f) Stone Workers (Precious) ..	..	..	2	..	..	..	2	..	..	..	..	..	2	2	..	..
	40 (g) Leather Workers	..	..	4	..	..	1	18	..	..	..	..	..	5	5	..	..
	41 (h) Earth, Stone, Clay, &c., Workers	..	..	..	..	..	..	1	..	..	..	..	..	2	1	..	..
	42 (i) Textile Fabrics (Cotton, Silk, &c.), Workers	..	..	..	..	..	..	2	..	..	..	..	1	1	1	..	..
	43 (j) Dyers, Painters, &c.	2	..	5	..	1	..	5	..	..	..	..	..	2	2	1	1
	44 (k) Glass Workers	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
	45 (l) Salt Workers	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	46 (m) Water Workers	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
	47 (n) Miscellaneous Workers ..	..	..	11	..	1	6	20	..	..	..	..	2	13	6	..	..
	48 (o) Players, Actors, Dancers, Prostitutes, &c.	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..
Agriculture ..	49 (a) Gardeners, Cultivators, Farmers, &c.	5	..	8	..	..	2	12	..	..	..	..	1	5	5	..	14
	50 (b) Grass, Hay, Forage, &c., Dealers	..	..	..	..	..	..	2	..	..	..	..	..	1	..	..	1
Other and unspecified.	51 (a) Barbers, Washers, Tailors, Cooks, Bakers, &c.	26	..	25	..	3	7	44	..	..	..	..	..	21	13	5	3
	52 (b) General Labourers	29	..	80	..	3	12	200	..	..	..	..	1	54	44	4	11
	53 (c) Domestic Servants, Bhistis, &c.	20	..	12	..	2	2	24	..	..	..	..	..	10	7	1	1
	54 (d) Servants not otherwise described	12	..	81	..	6	15	77	..	..	..	..	2	31	22	1	3
	55 (e) Municipal Bigaries, Halalkhors, &c.	..	..	4	..	1	..	21	..	..	..	..	..	12	6	2	..
Persons of independent means.	56 (a) Landlords	..	..	..	..	..	..	4	..	..	..	..	..	4	..	..	..
	57 (b) Pensioners	..	..	..	..	1	2	4	..	..	..	..	..	6	3	..	..
	58 (c) Mendicants, &c.	2	..	5	..	..	4	22	..	..	..	..	..	43	7	1	7
Others	59 (a) Students	1	..	11	..	6	3	19	..	..	..	..	..	2	4	..	1
	60 (b) Prisoners and Convicts ..	..	..	..	..	..	..	1	..	..	..	..	..	..	4	..	..
	61 (c) Others (Pilgrims, Travellers, etc.)	4	..	..	..	..	6	13	..	..	..	..	1	24	4	..	..
	62 Persons following no occupations—Male ..	6	..	21	..	4	16	27	..	..	..	..	..	79	26	..	2
	63 Do. no occupations—Female ..	30	..	71	..	19	45	288	..	..	..	..	4	247	81	185	6
	64 Do. no occupations—Children ..	154	69	76	..	18	38	436	..	1	12	6	..	813	218	1	..
	Total ..	359	70	599	..	109	208	1,774	..	1	12	6	16	1,566	629	220	59

—*concld.*

OCCUPATION in 1915—*concluded.*

Cancer.	Premature Birth.	Debility.	Old Age.	Tubercle of Lungs.	Other Tubercular Diseases.	Other General Diseases.	LOCAL DISEASES. Nervous System.	Diseases of the Eye, Ear and Nose.	Circulatory System.	Respiratory System. Phthisis.	Respiratory System. Other Diseases of the Respiratory System.	Digestive System.	Lymphatic System.	Urinary System.	Generative System.	Still-born.	Organs of Locomotion and Connective Tissue.	Other Local Diseases.	INJURIES. General. Drowning.	General. Other General Injuries.	Local Injuries.	Poison.	Unspecified Causes.	TOTAL.
..	..	..	4	..	1	2	1	..	3	..	4	3	1	2	..	..	..	..	1	..	..	1	..	28
..	..	..	1	..	..	..	..	..	1	..	3	..	..	..	..	..	..	..	..	..	..	..	..	7
..	..	..	..	..	..	..	..	..	1	1	4	3	..	..	..	..	..	..	..	..	1	1	..	15
..	..	..	16	4	1	7	2	..	3	11	53	16	..	4	..	..	1	..	1	1	..	1	..	166
2	..	..	8	2	4	11	6	..	3	9	68	15	..	3	1	..	3	..	1	4	7	..	..	210
..	..	..	10	1	..	2	6	..	1	3	9	2	..	1	..	..	..	..	..	..	..	..	..	43
..	..	..	7	..	..	2	2	..	..	12	37	6	..	4	..	..	..	1	1	..	1	2	..	108
..	..	..	..	1	..	..	1	..	..	6	5	..	..	..	..	..	..	..	..	..	..	..	..	16
..	..	..	2	..	..	2	..	..	..	..	4	2	..	..	..	..	..	..	..	..	..	..	..	15
..	..	..	11	3	1	3	..	..	3	6	26	5	..	1	1	..	1	..	..	1	1	..	1	33
..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	..	..	..	..	..	1	4	..	..	..	..	..	..	..	..	..	..	..	..	7
1	..	..	18	4	5	16	7	..	4	12	70	7	..	6	1	..	1	..	1	2	3	2	..	219
..	..	..	5	..	..	5	4	..	1	8	15	5	..	..	..	..	..	..	..	2	2	..	2	61
1	..	..	10	..	1	6	2	..	..	3	46	6	1	4	..	..	..	..	..	..	..	1	1	133
..	..	..	..	..	..	..	..	..	..	1	3	..	..	..	..	..	..	..	..	2	..	1	..	11
3	..	..	61	9	8	27	8	..	17	35	181	27	..	10	4	..	4	..	..	6	4	1	..	552
1	..	1	67	15	14	53	11	..	15	114	450	35	1	12	4	..	7	..	3	33	39	4	..	1,337
..	..	..	4	10	4	14	..	..	5	13	48	5	1	3	..	..	1	..	..	3	5	1	1	197
2	..	..	29	11	6	29	18	..	10	49	173	33	..		1	..	3	2	..	4	1	2	..	632
..	..	..	9	4	1	7	4	..	3	12	65	4	..	4	1	..	..	..	1	3	1	..	..	165
1	..	..	6	..	..	2	2	..	5	..	15	3	..	1	..	..	..	..	1	2	..	..	..	46
1	..	..	28	..	..	4	13	..	6	1	27	8	..	4	..	..	..	..	..	1	1	1	..	111
..	..	2	35	14	7	17	6	1	14	25	89	4	..	7	1	..	2	..	2	10	7	2	..	336
..	..	..	..	2	2	12	2	..	6	3	18	6	1	2	..	..	1	..	..	..	..	..	..	102
..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	..	..	12
..	..	..	3	1	1	4	2	..	1	1	6	1	..	5	..	..	1	..	..	2	..	..	..	80
4	..	4	103	33	32	47	38	2	25	40	167	29	..	25	1	..	8	..	18	34	6	1	12	701
39	..	18	555	94	94	385	148	..	66	461	891	171	4	91	33	..	24	1	9	46	12	5	3	4,183
1	212	2,017	..	11	43	976	1,139	2	19	53	3,145	444	3		10	..	14	5	9	67	31	4	4	10,060
72	212	2,047	1,241	297	299	1,901	1,536	6	339	1,114	6,770	1,053	14	283	127	1,532	89	15	77	282	203	44	32	23,681

TABLE of DEATHS by Race, Age and Sex in 1915.

RACE.	AGES.																			
	1 to 30 days.		1 to 6 months.		7 to 12 months.		1 to 2 years.		2 to 3 years.		3 to 4 years.		4 to 5 years.		5 to 10 years.		10 to 15 years.		15 to 20 years.		20 to 25 years.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Jains	39	32	40	24	53	47	36	29	7	4	2	5	8	8	7	14	23	10	52	32	50	37
Brahmins	38	36	62	41	53	51	52	36	10	8	6	6	3	6	4	8	16	16	36	38	46	38
Lingaits	8	2	3	3	4	6	4	1	3	2	...	1	...	1	3	3	3	5	3	10	4	1
Bhatias	8	9	6	12	5	7	3	1	...	...	1	2	...	...	3	3	1	6	4	12	4	10
Hindus of other Castes ...	655	520	418	396	463	488	300	339	126	140	63	74	41	44	156	186	131	131	402	308	575	377
Hindus, Low Caste	213	176	171	139	191	192	118	123	44	59	15	25	12	23	34	47	21	29	75	64	112	84
Mussalmans	245	132	245	183	228	190	166	178	42	54	18	41	27	25	72	128	71	121	135	251	224	255
Parsees	40	28	18	21	44	59	29	30	11	10	3	4	3	4	9	11	5	10	13	20	14	17
Jews	8	7	9	2	3	7	7	6	1	3	1	1	...	1	1	2	...	2	3	4	7	6
Native Christians	61	70	85	93	36	39	29	29	6	14	3	5	5	3	17	12	16	14	38	41	42	38
Eurasians	5	1	6	3	8	3	4	3	1	...	...	1	...	...	1	1	1	...	1	4	...	3
Europeans	3	5	5	3	6	5	3	4	1	...	...	2	..	...	2	...	1	...	4	1	14	4
Negro-Africans	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Buddhists	1	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	2	1	1	...
Other and Unknown Castes ...	13	11	1	1	1	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
All Castes ... Males ...	1,338	...	1,069	...	1,101	...	732	...	252	...	112	...	94	...	309	...	289	...	767	...	1,093	...
All Castes ... Females ...	...	1,079	...	921	...	1,094	...	774	...	294	...	167	...	110	...	414	...	344	...	786	...	870
All Castes ... Persons ...	2,417		1,990		2,195		1,506		546		279		204		723		633		1,553		1,963	

TABLE of DEATHS by Race, Age and Sex in 1915—*concluded.*

Race.	Ages—*contd.*																			
	25 to 30 years.		30 to 35 years.		35 to 40 years.		40 to 45 years.		45 to 50 years.		50 to 55 years.		55 to 60 years.		60 and over.		Unspecified Ages.		All Ages.		Persons.
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males	Females.	Males.	Females	Males.	Females.	Males.	Females.	
Jains	24	29	32	14	16	11	21	10	32	12	29	11	24	13	36	27	...	...	526	364	890
Brahmins	45	28	40	18	31	9	19	13	36	8	14	10	31	9	37	29	...	...	564	408	972
Lingaits	3	4	5	1	3	3	1	...	3	...	2	...	4	2	4	6	...	...	60	51	111
Bhatias	6	8	4	5	4	2	10	2	9	4	6	3	7	5	8	17	...	...	89	107	196
Hindus of Other Castes	600	293	406	185	357	158	215	91	302	150	133	72	268	209	394	501	3	...	6,008	4,662	10,670
Hindus, Low Caste	99	70	55	38	65	47	22	18	54	42	16	7	64	55	58	83	...	...	1,439	1,311	2,750
Mussalmans	262	205	174	125	182	119	130	53	176	81	87	31	183	106	320	221	1	...	2,987	2,544	5,531
Parsees	15	21	18	27	19	18	26	24	41	24	20	22	32	26	101	133	...	...	460	499	959
Jews	1	8	3	2	...	5	3	2	4	2	3	1	6	6	12	8	...	...	72	75	147
Native Christians	38	40	33	25	26	15	26	14	47	15	28	13	25	15	53	34	...	...	614	529	1,143
Eurasians	4	5	6	4	6	4	3	2	2	3	3	1	1	1	6	5	...	...	58	44	102
Europeans	11	2	11	5	13	...	12	...	2	3	5	5	6	2	14	8	...	...	113	49	162
Negro-Africans	1	2	...	1	2	1	...	...	1	...	...	...	...	...	...	...	...	...	5	4	9
Buddhists	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	..	...	...	7	1	8
Other and Unknown Castes ...	1	...	...	...	1	...	1	1	...	...	...	...	...	...	...	...	...	...	18	13	31
All Castes. Males	1,110	...	787	...	725	...	489	...	709	...	346	...	651	...	1,043	...	4	...	13,020	...	
All Castes. Females	...	715	...	440	...	392	...	230	...	344	...	176	...	449	...	1,062	...	...	...	10,661	
All Castes. Persons	1,825		1,227		1,117		719		1,053		522		1,100		2,105		4				23,681

TABLE showing by Race the Rate of Mortality per 1,000 of Population from different Death Causes in 1915.

Race or Caste.	Small-pox.	Measles.	Plague.	All Fevers.	Scarlet.	Enteric.	Malaria.	Ague and Remit-tent.	Relaps-ing.	Cholera.	Diar-rhœa.	Dysen-tery.	Phthisis.	Other Respira-tory Diseases.	Acci-dents.	All Other Causes.	All Causes.
Jains	·09	·09	2·59	4·54	.....	·48	·83	3·22	.....	.....	2·39	·63	1·80	13·34	·78	17·20	43·49
Brahmins	·46	·09	·48	2·03	.....	·05	·20	1·77	.....	·01	·96	·42	1·15	5·08	·44	6·91	18·11
Lingaits	.....	.....	3·39	10·17	.....	·84	·84	8·48	.....	.....	3·39	3·39	9·32	33·92	1·69	28·83	94·14
Bhatias	.....	.....	·64	3·44	.....	·38	·12	1·93	.....	.....	1·67	·64	1·15	5·78	·51	12·33	25·19
Hindus of other Castes	·34	·06	·62	1·82	.....	·03	·16	1·63	.....	·02	1·18	·24	1·10	5·99	·51	7·28	19·47
Hindus, Low Castes	·59	·25	·94	4·32	.....	·01	·18	4·01	.....	·01	4·29	1·40	2·52	17·18	·95	18·30	50·70
Hindus, All Castes	*·35*	*·07*	*·70*	*2·13*	.....	*·05*	*·18*	*1·89*	.....	*·02*	*1·15*	*·60*	*1·25*	*7·07*	*·55*	*8·52*	*22·77*
Mussalmans	·25	·08	·49	2·14	.....	·05	·25	1·84	.....	·01	2·18	·82	2·44	8·25	·73	13·52	30·89
Parsees	·15	·08	·13	1·70	.....	·54	·29	·86	.....	.....	1·43	·43	·51	3·18	·62	10·60	18·82
Jews	·30	.....	·15	2·12	.....	·45	.....	1·66	.....	.....	·90	·60	·90	5·15	·30	11·82	22·38
Native Christians	1·30	·12	·50	2·78	.....	·36	·93	2·08	.....	.....	2·10	·62	1·42	5·13	·55	13·10	27·69
Eurasians	·23	·47	·47	2·62	.....	1·19	·71	·71	.....	.....	·95	1·19	2·86	4·05	.....	11·46	24·35
Europeans	·25	·08	.....	1·26	.....	·92	·08	·25	.....	.....	·83	·58	·75	1·17	1·68	7·48	13·62
Buddhists	.....	.....	.....	1·73	.....	.....	.....	1·73	.....	.....	.....	.....	1·73	3·46	3·46	3·46	13·84
Other and Unknown Castes	.....	.....	.....	7·35	.....	.....	7·35	.....	.....	.....	.....	.....	.....	58·82	102·94	58·82	227·94
Total	·36	·07	·61	2·13	.....	·11	·21	1·81	.....	·01	1·59	·64	1·44	6·91	·61	9·76	24·17

TABLE of BIRTHS in different months by Caste and Sex in 1915.

MONTHS.	Jains.		Brahmins.		Lingaits.		Bhatias.		Hindus of other Castes.		Hindus, Low Caste.		Mussalmans.		Parsees.		Jews.		Native Christians.		Eurasians.		Europeans.		Negro-Africans.		Buddhists.		Other and unknown Castes.		TOTAL.		
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Persons.
January	7	15	27	12	...	...	6	4	379	373	113	125	182	156	75	73	13	9	39	41	11	6	19	15	...	...	...	...	1	1	863	830	1,693
February	9	5	19	19	...	...	4	7	295	303	85	110	140	157	61	55	11	8	56	41	8	3	7	9	1	1	...	3	...	...	696	721	1,417
March	12	8	17	17	1	...	5	4	308	298	104	118	122	132	42	40	5	12	44	55	3	4	4	6	...	1	...	...	...	...	667	695	1,362
April	9	5	25	20	...	...	1	4	303	291	99	107	140	119	41	50	7	12	46	44	13	6	6	6	...	...	2	...	1	1	698	665	1,363
May	12	8	15	14	...	...	5	8	319	305	112	87	148	123	52	33	7	7	39	33	8	4	5	7	1	...	...	1	...	...	723	630	1,353
June	9	13	15	21	...	...	3	4	341	304	104	99	143	147	44	44	10	9	47	42	3	3	7	4	...	...	1	...	...	1	737	696	1,433
July	17	10	19	22	...	...	4	5	364	385	127	127	144	142	64	46	6	8	49	43	6	7	5	8	...	...	1	1	2	...	808	804	1,612
August	13	17	30	24	...	...	5	5	423	359	149	116	176	161	56	56	8	6	37	60	5	3	11	6	...	...	...	...	2	1	918	794	1,712
September... ...	16	17	23	26	...	...	4	3	428	439	155	150	190	150	57	62	14	7	41	46	5	6	5	7	...	...	1	1	1	...	940	914	1,854
October	25	15	31	24	1	...	3	12	521	465	165	160	164	183	82	66	10	8	57	63	8	9	6	11	1	...	5	...	1	1	1,081	1,016	2,097
November	21	18	31	28	1	...	6	6	498	445	150	150	204	161	66	74	13	13	63	52	6	9	7	12	...	2	...	...	..	1	1,066	971	2,037
December	10	16	22	33	...	...	7	5	499	510	179	137	220	181	74	77	13	12	54	50	3	4	11	2	1	...	...	...	4	2	1,097	1,032	2,129
Total ... Males ...	160	...	274	...	3	...	53	...	4,686	...	1,542	...	1,973	...	714	...	117	...	572	...	79	...	84	...	4	...	10	...	12	...	10,284	...	
Total ... Females.	...	152	...	260	...	...	...	67	...	4,477	...	486	...	1,815	...	656	...	111	...	570	...	64	...	93	...	4	...	6	...	8	...	9,768	
Total ... Persons.	312		534		3		120		9,163		3,028		3,788		1,370		228		1,142		143		177		8		16		20		20,052		

TABLE showing the number of Still-births by Race and Month in 1915.

MONTHS.	MALES.																FEMALES.																PERSONS.															
	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Other and Unknown Castes.	Total.	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Other and Unknown Castes.	Total.	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Other and Unknown Castes.	Total.
January.. ..	..	2	..	..	15	3	16	2	..	5	..	..	..	..	2	45	1	2	..	..	23	8	17	1	1	4	..	..	..	..	1	58	1	4	..	..	38	11	33	3	1	9	..	..	..	..	3	103
February ..	4	..	..	..	23	6	14	..	1	2	..	..	..	..	2	52	..	3	..	..	14	6	9	3	..	2	..	..	.	..	2	39	4	3	..	.	37	12	23	3	1	4	..	..	..	..	4	91
March	3	1	..	1	39	11	17	2	..	2	..	1	..	..	2	79	2	1	..	..	20	2	8	1	..	1	1	..	..	..	2	38	5	2	..	1	59	13	25	3	..	3	1	1	..	..	4	117
April	1		..	..	29	13	11	2	1	2	..	..	..	..	1	60	1	1	..	1	18	8	13	1	..	2	..	..	..	..	..	45	2	1	..	1	47	21	24	3	1	4	..	..		..	1	105
May	2	..	..	..	31	5	10	2	..	4	..	..	..	..	..	54	..	2	..	..	26	12	12	2	..	5	..	..	..	..	1	60	2	2	..	..	57	17	22	4	..	9		..	..	..	1	114
June	2	2	..	..	18	9	14	1	1	4	..	..	..	..	..	51	1	..	..	..	21	11	7	3	..	1	1	..	..	..	..	45	3	2	..	..	39	20	21	4	1	5	1	..	..	..	..	96
July	1	4	..	..	32	7	9	1	1	1	..	..	..	..	2	58	2	4	..	..	23	7	8	1	..	1	..	..	..	..	1	47	3	8	..	..	55	14	17	2	1	2	..	..	..	..	3	105
August	2	5	..	..	41	10	25	1	4	3	..	..	..	..	4	95	..	3	..	..	36	6	15	2	..	2	..	1	..	..	..	65	2	8	..	..	77	16	40	3	4	5	..	1	..	..	4	160
September ..	5	2	1	2	47	18	13	2	2	5	..	..	..	..	2	99	2	3	..	..	17	12	16	2	..	2	..	..	..	..	..	54	7	5	1	2	64	30	29	4	2	7	..	..	.	..	2	153
October	3	3	2	..	43	16	14	8	1	9	..	..	..	..	4	100	2	2	1	1	32	8	19	6	..	4	..	2	..	..	1	78	5	5	3	1	75	24	33	14	1	13	..	2	..	..	5	181
November ..	3	2	..	2	39	5	30	6	2	5	..	1	..	..	3	98	1	1	2	..	27	12	23	4	..	4	..	..	..	..	2	76	4	3	2	2	66	17	53	10	2	9	..	1	..	..	5	174
December ..	3	3	..	1	33	10	13	2	1	5	..	..	..	..	2	73	..	1	..	..	26	13	11	2	2	4	..	1	..	..	..	60	3	4	.	1	59	23	24	4	3	9	..	1	..	..	2	133
Total ..	29	24	3	6	390	113	186	29	14	47	..	2	..	..	24	867	12	23	3	2	283	105	158	28	8	32	2	4	..	..	10	665	41	47	6	8	673	218	344	57	17	79	2	6	..	..	34	1,532

TABLE showing the number of Still-births by Section and Month in 1915.

MONTHS	A					B				C						D					E							F			G		Harbour, Docks, Railways and Homeless.	Total.
	Upper Colaba.	Middle and Lower Colaba.	Fort, South.	Fort, North.	Esplanade.	Mandvi.	Chakla.	Umarkhadi.	Dongri.	Market.	Dhobi Talao.	Fanaswadi.	Bhuleshwar.	Khara Talao.	Kumbharwada.	Khetwadi.	Girgaum.	Chowpati.	Walkeshwar.	Malabarhill.	Mazagon.	Tarwadi.	2nd Nagpada.	Kamathipura.	Tardeo.	Byculla.	1st Nagpada.	Parel.	Sewri.	Sion.	Mahim.	Worli.		
January ..	..	1	..	1	..	1	5	7	3	2	3	5	5	4	4	1	3	1	2	2	6	4	5	5	2	7	1	5	1	3	1	13	..	103
February ..	..	3	..	2	..	2	3	5	2	2	4	..	3	5	5	2	3	2	1	3	3	..	4	4	2	8	..	4	4	2	4	9	..	91
March ..	1	..	2	2	3	3	3	4	3	2	5	2	4	3	8	3	5	2	1	5	4	4	3	6	3	11	1	3	1	3	6	6	..	117
April ..	..	3	..	2	1	3	4	7	4	1	6	2	2	7	3	4	..	1	1	2	4	3	7	3	5	9	..	6	2	3	1		..	105
May	1	1	..	..	2	4	2	9	1	3	5	2	5	4	4	4	3	2	3	4	6	4	2	3	2	15	..	2	5	4	..	14	..	114
June	..	3	..	4	..	1	5	5	1	2	1	4	2	4	3	1	1	2	2	..	2	4	4	4	6	14	2	4		1	4	10	..	96
July	..	2	..	4	3	1	..	4	1	3	9	3	7	3	3	2	1	4	..	3	3	3	7	1	3	10	..	10	2	2	4	7	..	105
August ..	..	2	..	7	2	5	7	7	..	3	5	2	2	2	3	7	8	3	4	4	8	4	5	6	2	15	..	8	1	3	12	23	..	160
September ..	1	4	..	4	4	8	3	10	8	2	3	4	6	3	3	3	6	1	3	4	7	5	2	12	4	8	..	3	2	5	8	17	..	153
October ..	..	4	..	3	1	4	2	9	1	..	12	6	4	5	1	3	6	5	3	7	11	6	3	6	5	13	1	5	2	7	12	13	..	181
November ..	1	6	..	3	2	4	7	10	1	5	6	3	4	6	5	6	3	2	4	3	3	4	9	13	3	20	..	6	2	4	3	11	..	174
December ..	..	2	..	4	2	3	1	5	5	4	7	5	5	3	5	7	4	..	1	7	2	5	4	6	5	7	3	6	2	5	2	15	..	133
Total ..	4	31	2	46	21	39	42	82	30	29	66	38	49	47	47	48	43	25	26	44	64	46	60	69	47	137	8	62	24	47	57	153	..	1,532

STATEMENT showing the number of DEATHS from Principal Causes in different Hospitals in the City of Bombay in 1915.

HOSPITALS.	GENERAL DISEASES.																								LOCAL DISEASES																Injuries.		Unspecified Causes.		TOTAL.		
	Still-born.		Small-pox.		Measles.		Plague.		Fevers.		Cholera.		Diarrhœa and Dysentery.		Puerperal Septicæmia.		Leprosy.		Premature Birth.		Other General Diseases.		Nervous System.		Circulatory System.		Phthisis.		Other Diseases of the Respiratory System.		Digestive System.		Urinary System.		Generative System.		Other Local Diseases.									
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Persons.
Adams Wylie Memorial Hospital.	..	..	..	..	..	..	..	..	4	2	..	..	14	4	..	..	..	..	..		30	14	..	..	..	..	28	13	19	1	6	1	3	3	..	..	5	2	1	..	..	..	105	40	145
Ahless Gama Hospital	67	50	..	..	..	..	..	1	..	2	..	..	1	5	..	9	..	..	19	20	14	43	7	4	..	10	..	6	1	5	7	15	..	8	1	9	..	1	..	3	..	..	50	141	191
Arthur Road Hospital	..	1	72	31	3	1	1	..	1	1	2	..	4	1	..	..	..	..	..	..	3	4	1	..	..	..	5	6	8	3	..	1	..	..	..	..	..	..	..	..	..	..	100	48	148
Ayurvedic Hospital	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
Bai Motlabai and Sir D. M. Petit Hospital	77	58	..	..	..	..	..	..	..	..	..	..	5	8	..	7	..	..	12	15	5	15	7	7	1	1	..	2	5	8	9	6	1	..	1	13	1	2	..	1	..	..	47	85	132
Bai Rukshamani Lying-in Hospital	13	9	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	7	5	3	2	6	3	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	16	13	29
Dr. Bhajekar's Hospital	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..	..	..	1	..	..	..	..	..	..	4	..	4
B. D. Petit Parsee General Hospital	2	3	..	..	..	..	..	..	7	1	..	..	3	6	..	..	..	..	2	2	3	10	1	1	2	..	1	1	5	4	3	3	3	4	..	2	2	2	2	1	..	..	40	37	77
Colaba Lunatic Asylum	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	1
Colaba Station Hospital	..	..	..	..	..	..	..	..	3	..	..	..	3	2	..	..	..	..	1	..	8	..	2	..	2	..	..	..	..	1	..	1	2	..	..	..	..	..	1	3	7	..	26	4	30
Goculdas Tejpal Hospital	..	1	..	..	..	..	1	..	29	7	..	..	58	17	..	..	..	..	..	..	79	18	6	3	4	1	3	..	73	2	11	2	28	4	..	..	1	3	17	8	..	..	310	65	375
Sir J. J. Hospital	..	..	..	..	..	..	1	..	24	5	..	..	68	28	..	..	..	..	..	..	188	84	47	22	18	8	20	6	141	19	63	18	18	6	7	1	22	9	31	19	..	..	646	225	871
Lady Hardinge War Hosp.	..	..	..	..	1	..	..	..	8	..	..	..	18	..	..	..	..	..	..	..	33	1	1	..	1	..	1	..	14	..	6	..	1	..	..	..	..	..	22	..	1	..	107	1	108
Dr. Kerrawalla's Hospital	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2	2	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	4	3	7
Marine Lines War Hospl.	..	..	..	..	..	..	..	..	1	..	..	..	7	..	..	..	..	..	..	..	6	..	1	..	1	..	1	..	2	..	..	..	..	..	..	..	..	..	1	..	..	..	19	..	19
Matunga Leper Asylum	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	38	11	..	..	3	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	38	15	53
Maratha Hospital	..	..	..	..	..	83	13	3	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1	1	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	89	15	104
Municipal Maternity Home	3	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	4
Dr. Mesina's Hospital	6	4	..	..	..	..	..	..	1	1	1	..	..	..	..	..	..	..	6	4	11	13	3	5	1	2	..	..	3	3	6	2	7	4	..	..	2	1	2	1	..	..	41	38	79
Dr. Parakh's Hospital	4	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..	..	..	..	..	4	1	1	1	..	..	..	..	..	..	..	..	..	..	8	2	10
Parsee Fever Hospital	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1
Parsee Lying-in-Hospital	12	12	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..	..	1	1	1	1	8	3	..	1	..	..	1	..	1	1	..	..	2	1	..	..	..	..	..	..	14	11	25
Police Hospital	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	2	1	..	..	..	..	..	..	5	..	2	..	1	..	..	..	..	..	..	..	..	..	12	2	14
Dr. Purandare's Hospital	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2	3	5
St. John's Hospital	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
St. Joseph's Foundling Home	..	..	..	..	..	..	..	..	7	22	..	..	3	8	..	..	..	..	..	..	28	43	..	2	..	..	..	..	2	6	3	5	..	..	..	1	..	..	..	..	..	..	38	87	125
St. George's Hospital	1	3	2	1	..	..	..	..	11	5	..	..	7	..	..	..	..	..	1	..	16	8	2	3	2	2	2	..	7	3	10	7	2	1	2	1	..	..	3	..	1	..	68	33	101
Seva-Sadan Hospital	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	1	2
Bombay Hospital	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ellinga S. S.	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2
Family Hospital	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
G. I. P. Railway	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Gynæcological Hall Mission Home	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2
Regimental Home	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
TOTAL... Males	194	..	74	..	4	..	86	..	101	..	3	..	195	..	..	..	38	..	54	..	435	..	97	..	33	..	56	..	291	..	131	..	63	..	13	..	34	..	85	..	2	..	1,795	..	
TOTAL... Females	..	149	..	32	..	1	..	14	..	49	..	..	..	81	..	17	..	11	..	50	..	266	..	55	..	25	..	37	..	57	..	64	..	31	..	32	..	21	..	32	..	..	..	875	
TOTAL... Persons	343		106		5		100		150		3		276		17		49		104		701		152		58		93		348		195		94		45		55		117		2		2,670		2,670

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TABLE showing the Number of Plague Deaths by Streets and Races during 1915.

Ward.	Locality. Section.	Locality. Street.	Census Population by of 1911.	Races. Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of Other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Unknown.	Total.
		Upper Colaba.																	
A	Upper Colaba.	Colaba Road	1,567	...	...	...	...	...	...	...	...	...	...	...	...	...	...		..
		Middle and Lower Colaba.																	
	Middle and Lower Colaba.	Apollo Bunder		...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
		Bora Street		...	...	...	...	6	...	...	...	..	...	...	...	...	..	...	6
		Colaba Road		...	...	...	...	8	...	1	...	...	1	...	...	...	...	...	10
		Gun Carriage Street		...	...	...	...	7	4	1	...	...	...	...	...	...	...	...	12
		Hamal Street		...	...	...	...	10	...	...	...	...	...	...	...	...	...	...	10
A		Koli Lane, 1st	19,579	...	...	...	...	3	...	1	...	...	...	...	...	...	...	...	4
		Manekji Street		...	...	...	...	1	...	..	...	...	1	...	...	...	...	...	2
		Nowroji Street		...	...	...	...	8	...	...	...	...	...	...	...	...	...	...	8
		Ormiston Road		...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	2
		Pestonji Street...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Sassoon Dock Road		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Thomas Street		...	...	...	...	6	2	2	.	...	...	...	...	...	...	...	10
		Victoria Bunder		...	...	...	...	9	4	...	...	...	...	...	...	...	...	...	13
		Fort, South.																	
A	Fort, South.	Bell Lane	3462	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
		Esplanade Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Fort, North.																	
	Fort, North.	Bomanji Lane		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Bora Bazar Street		...	1	...	...	3	...	...	...	...	...	...	...	...	...	...	4
		Cawasji Patel Street		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
A		Churchgate Street	25,400	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Frere Road		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Gunbow Street		...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	2
		Homji Street		...	...	...	...	...	...	...	...	...	...	1	..	...	...	...	1
		Maruti Lane		...	...	...	...	1	...	...	...	...	...	...	...	..	...	...	1
		Mint Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Mody Street		...	1	...	...	4	...	...	...	...	...	...	...	...	...	...	5
		Pitha Street		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Esplanade.																	
A	Esplanade.	Paltan Road	17,761	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	3
		Home Street		...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	4
		Hornby Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Mandvi.																	
	Mandvi.	Argyle Road		...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	3
		Bhandari Street		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Bhandup Street		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Broach Street		...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	5
		Baroda Street		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Chukla Street		1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	3
		Chukla Cross Lane		...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	2
		Carnac Road		1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	2
		Chinch Bunder Road 1st ...		...	...	...	...	2	...	1	...	...	...	...	...	...	...	...	3
B		Chinch Bunder Road 2nd ...	33,302	4	...	...	...	4	...	...	...	...	...	...	...	...	...	...	8
		DeSouza 1st Cross Lane ...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Dongri Road		4	1	...	...	2	...	...	...	...	...	...	...	...	...	...	7
		Dontad Cross Lane		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Isaji Street		...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	2
		Isajee Cross Lane		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Jambli Street		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Jambli 1st Cross Lane ...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Kazi Sayad Street		...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	3
		Masjid Siding Road		1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	3
		Surat Street		...	...	...	...	1	...	...	...	...	...	...	...	..	...	...	1
		Samuel Street 1st		...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	2
C		Samuel Street 2nd		...	...	...	...	1	...	3	...	...	...	...	...	...	...	...	4

35—*continued.*

TABLE showing the Number of Plague Deaths by Streets and Races during 1915—*continued.*

Locality.				Census	Races.														
Ward.	Section.	Street.		Population by Census of 1911.	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of Other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Unknown.	Total.
		Chukla.																		
B	Chukla.	Abdul Rahman Street	...	24,381	...	1	...	...	4	...	3	...	...	...	...	...	...	...	...	8
		Kambekar Street	...		...	...	...	...	2	...	2	...	...	...	...	...	...	...	...	2
		Memonwada Road	...		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Nagdevi Street	...		...	...	...	...	2	...	1	...	...	...	...	...	...	...	...	3
		Sarang Street	...		...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	3
		Umarkhadi.																		
B	Umarkhadi.	Chuna Bhatti Attar Lane	...	45,679	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2
		Dongri Street	...		...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	2
		Imamwada Road	...		...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	3
		Imamwada Camp. I. T. Chawl.			...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3
		Jail Road, North	...		...	...	...	...	...	2	1	...	...	...	...	...	...	...	...	3
		Jail Road, South	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Jail Road, East	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Jail Road, West	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Nishanpada Road	...		...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	3
		Umarkhadi Road	...		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Umarkhadi Road 2nd	...		...	...	...	...	1	2	...	...	...	...	...	...	...	...	...	3
		Umarkhadi Street	...		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Pathan Wadi	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Parel Road	...		2	...	...	...	3	...	2	...	...	...	...	...	...	...	...	7
		Samuel Street	...		...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	3
		Sandhurst Road	...		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Tandel Street	...		...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	3
		Tantanpura Street	...		...	...	...	...	1	...	2	...	...	...	...	...	...	...	...	3
		Dongri.																		
B	Dongri.	Chinch Bunder Road 1st	...	27,346	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Dongri Street	...		...	...	...	...	...	1	1	...	1	...	...	...	...	...	...	3
		Jail Road, East	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Mazagon Road	...		...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1
		Nowrojee North 1st	...		1	...	...	...	1	...	1	...	...	...	...	...	...	...	...	3
		Nowrojee South 1st	...		...	...	...	...	5	...	...	...	...	...	...	...	...	...	...	5
		Nowrojee North 2nd	...		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Valpakhadi Road	...		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Market.																		
C	Market.	Abdul Rahman Street	...	30,172	...	2	...	...	...	...	1	...	...	...	...	...	...	...	...	3
		Champawadi	...		1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	3
		Ganeshwadi	...		1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2
		Kalbadevi Road	...		...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	3
		Lohar Chawl	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Lad Wadi	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Mirza Street	...		...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2
		New Hanuman Lane	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Old Hanuman Lane	...		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Old Hanuman 1st Cross Lane			...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Picket Road	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Shaik Memon Street	...		...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2
		Dhobi Talao.																		
C	Dhobi Talao.	Chandanwady	...	88,654	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Cavel	...		...	1	...	...	1	...	...	...	...	1	...	...	...	...	...	3
		Hamalwady	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Kalbadevi Road	...		...	2	...	...	3	...	...	...	...	...	...	...	...	...	...	5
		Kolbhat Street	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Marine Line 4th	...		...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
		Popatwady	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Ropa Lane	...		...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
		Trinity Street	...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1

35—*continued.*

TABLE showing the Number of Plague Deaths by Streets and Races during 1915—*continued.*

Ward.	Section.	Street.	Population by Census of 1911.	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of Other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Unknown.	Total.
		Fanaswadi.																	
C	Fanaswadi.	Bhuleshwar Road	27,403	...	...	...	...	1	...	...	...	...	2	...	...	...	...	...	1
		Barrows Lane		...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	2
		Bhasker Lane		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Girgaum Road		...	...	...	2	3	...	...	...	...	...	...	...	...	...	...	5
		New Wadi		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Sonapur Street		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Thakurdwar Road		...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	3
		Zaoba's Wadi		...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Bhuleshwar.																	
C	Bhuleshwar.	Banian Road	86,459	...	1	...	...	3	...	...	...	...	...	...	...	...	...	...	4
		Bapu Khote Street		...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3
		Bhoiwada, 1st		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Bhoiwada, 2nd		...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Bhuleshwar Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Khoiwada, 3rd		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		B. B. Farel Road		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
C		C. P. Tank Road		1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Ghogari 1st Cross Lane		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Ghogari 2nd Cross Lane		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Kalbadevi Road		...	1	...	...	2	...	1	...	...	...	...	...	...	...	...	4
		Kika Street		...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Malbarrao Wadi		...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Maruti Lane		...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Pophal Wadi 1st Lane		...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3
		Panjrapole Lane 1st		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Khara Talao.																	
C	Khara Talao.	Bhendi Bazar Farel Road	22,979	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Chimna Butcher Street		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Dhabu Street		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Dhond Wady Nulbazar		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Doctor Street		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Duncan Road		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Gujar Street		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Khoja Street		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Mutton Street		...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	2
				...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Kumbharwada.																	
C	Kumbharwada.	Bhandari Street	27,703	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	2
		C. P. Tank Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Duncan Road		...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2
		Falkland Road		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Islampura		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Kumbharwada		...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3
		Pathan Street 1st		...	...	...	...	1	2	...	...	...	...	...	...	...	...	...	3
		Pathan Street 2nd		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Khetwadi.																	
D	Khetwadi.	Falkland Road	31,937	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		4th Falkland Cross Lane		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		6th Do do.		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Girgaum Back Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Kennedy Bridge		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Khetwadi Main Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Khetwadi Lane 9th		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Parsivada 1st		...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
		Trimbak Parasharam Street		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1

35—*continued.*

TABLE showing the Number of Plague Deaths by Streets and Races during 1915—*continued.*

Ward.	Section.	Street.	Population.	Jains.	Brahmins.	Lingaiks.	Bhatias.	Hindus of Other Castes.	Hindus, Low Castes.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Unknown.	Total.
		Girgaum.																	
D	Girgaum.	Churney Road	80,779	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Cow Lane		...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Girgaum Back Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Kandewadi Lane		...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
		Mugbhat Cross Lane		...	...	...	...	1	..	...	...	...	...	...	...	...	...	...	1
		Pimpalvadi		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Sadashiv Lane		...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	2
		Chowpati.																	
D	Chowpati.	Churney Road	11,397	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Girgaum Road		...	...	...	...	2	...	...	...	...	...	..	...	...	...	...	
		Walkeshwar.																	
D	Walkeshwar.	Dadyshet Street	10,640	...	..	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Mahalakshmi.																	
D	Mahalakshmi.	Arthur Road	26,393	...	...	...	...	3	7	1	...	...	...	...	...	...	...	...	11
		Bellasis Road		...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	4
		Clarke Road		...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	2
		Forjet Street		...	...	...	...	4	3	2	...	...	...	...	...	...	...	...	9
		Gowalia Tank Road		...	...	...	...	1	...	..	...	...	...	...	...	...	...	...	1
		Sleater Road		...	...	...	...	..	...	...	1	...	...	...	...	...	...	...	1
		Tardeo Road		...	...	...	...	5	1	...	...	...	...	...	...	...	...	...	6
		Warden Road		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Mazagon.																	
E	Mazagon.	Carpenter Street 2nd	30,075	1	...	...	...	1	...	...	.	...	...	...	...	...	...	...	2
		DeLima Street		...	...	...	..	...	...	...	...	...	1	...	...	...	...	...	1
		Ghorupdeo Road		...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	4
		Gunpowder Road		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Mazagon Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Matharpakhadi Road		...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
		Victoria Road		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Wadi Bunder Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1

35—*continued.*

TABLE showing the Number of Plague Deaths by Streets and Races during 1915—*continued.*

Ward.	Section.	STREET.	Population by Census of 1911.	Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of Other Castes.	Hindus, Low Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Unknown.	Total.
		Tarwadi.																	
E	Tarwadi.	Babula Tank Road	28,424	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Connaught Road		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Chinchpoogli Road ...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Ghorupdeo Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Love Lane		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Mazagon Road		2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
		Mount Road		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		2nd Nagpada.																	
E	2nd Nagpada.	Huzria Street	21,700	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Kazipura Street		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Tank Street		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Kamathipura.																	
E	Kamathipura.	Bapty Road	36,751	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Centre Road		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Kamathipura 1st Lane ...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		" 5th do. ...		...	...	...	...	2	...	1	...	...	...	...	...	...	...	...	3
		" 6th do. ...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		" 7th do. ...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		" 9th do. ...		...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3
		" 10th do. ...		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		" 18th do. ...		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Northbrook Street ...		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Stable Street		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Suklaji Street		...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
		Tardeo.																	
E	Tardeo.	Arab Lane	27,768	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Bapty Road		...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	3
		Bellasis Road		...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
		Falkland Road... ...		...	...	...	...	3	1	...	...	...	...	...	...	...	...	...	4
		Foras Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Jairajbhai Street ...		...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	3
		Lamington Road ...		...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	3
		Byculla.																	
E	Byculla.	Agripada	75,348	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Bellasis Road		...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
		Clare Road		...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
		DeLisle Road		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		" Cross Lane ...		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Gujree Bazaar		...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
		Haines Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Kalachowki Road ...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		" Cross Lane ...		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Morland Road		...	1	...	...	1	...	1	...	...	...	...	...	...	...	...	3
		Parel Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Ripon Road		1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	2

35—*concluded.*

TABLE showing the Number of Plague Deaths by Streets and Races during 1915—*concluded.*

Ward.	Section.	STREET.	Population by Census of 1911.	RACES. Jains.	Brahmins.	Lingaits.	Bhatias.	Hindus of Other Castes.	Low Hindus, Caste.	Mussalmans.	Parsees.	Jews.	Native Christians.	Eurasians.	Europeans.	Negro-Africans.	Buddhists.	Unknown.	Total.
		1st Nagpada.																	
E	1st Nagpada.	New Nagpada Road	6,414	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
		Parel.																	
		Arthur Road		...	...	...	...	3	...	1	...	...	...	...	...	...	...	...	4
F	Parel.	Lalwadi	45,474	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Supparibang Road		...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	2
		Sewri.																	
F	Sewri.	Sewri Cemetery Road... ...	19,067	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	2
		Sewri Koliwada...		...	...	...	...	3	...	1	...	...	...	...	...	...	...	...	4
		Sion.																	
		Bhoiwadi Road...		...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
F	Sion.	Bhoiwadi Cross Road	30,680	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Dadar Road		...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1
		Naigaon Cross Road		1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Wadala village...		...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
		Mahim.																	
		Bazar Road		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Causeway		...	...	...	...	4	...	...	...	...	1	...	...	...	...	...	5
		Dadar Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
G	Mahim.	Dharavi Road	30,492	...	...	...	...	1	3	...	...	...	...	...	...	...	...	...	4
		Lady Jamshedjee Road ...		...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	2
		Mori Road		...	...	...	...	5	1	4	2	...	...	...	...	...	...	...	12
		Old Parbhadevi Road		...	...	...	...	12	...	...	...	...	...	...	...	...	...	...	12
		Sluice Road		...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Worli.																	
		Dadar Galli		...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
		Dadar Kumbharwada... ...		...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	2
		Dadar Road		...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	2
		Dhun Mill, Kumbharwada ...		...	...	...	...	4	1	...	...	...	...	...	...	...	...	...	5
		Fergusson Road		...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	4
G	Worli.	Haines Road	89,611	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1
		Khed Galli		...	...	...	...	2	1	...	...	...	...	...	...	...	...	...	3
		Koliwada		...	...	...	...	5	...	...	...	...	1	...	...	...	...	...	6
		Love Grove Road		...	...	...	...	6	...	...	...	...	...	...	...	...	...	...	6
		New Parbhadevi Road ..		...	...	...	...	7	...	...	...	...	1	...	...	...	...	...	8
		Old Parbhadevi Road		...	...	...	...	18	...	...	...	...	...	...	...	...	...	...	18
		Portuguese Church Road ...		...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	2
		Harbour, Docks, Railways and Homeless.																	
	Harbour.	Harbour...	44,979	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1

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TABLE of Deaths in different Circles from Principal Causes in 1915.

SECTION	Circle No.	Population by the Census of 1911.	NUMBER OF DEATHS FROM							Rate of Mortality per 1,000 of population.
			Small-pox.	Plague.	Cholera.	Fevers.	Tuberculosis and Phthisis.	Respiratory Diseases.	All Causes.	
Upper Colaba	1	1,557	...	...	...	4	5	12	61	39·17
Middle and Lower Colaba... ...	1	2,524	...	1	...	4	2	3	24	9·50
	2	2,763	...	20	...	3	2	13	56	20·28
	3	3,594	...	20	...	6	6	32	97	27·68
	4	1,607	...	6	...	5	5	16	49	30·49
	5	2,440	1	17	...	5	2	21	64	26·22
	6	2,163	1	11	...	6	...	18	55	25·42
	7	1,165	...	5	...	4	2	9	32	27·46
	8	3,506	1	1	...	9	1	8	44	12·54
	R. S.	.....	...	...	...	...	5	4	19	.....
Total ...	...	19,679	3	81	...	42	25	124	440	22·35
Fort South	1	526	...	2	...	2	3	1	14	26·61
	2	1,120	1	...	...	7	39	17	114	101·78
	3	526	...	...	...	...	...	...	...	.....
	4	562	...	...	...	2	1	2	6	10·67
	5	736	...	...	...	1	...	...	4	5·50
	R. S.	... ..	1	...	...	...	1	...	3	.....
Total ...	...	3,462	2	2	...	12	34	20	141	40·72
Fort North	1	2,679	3	4	...	8	2	19	95	35·46
	2	1,787	...	...	...	...	1	...	3	1·67
	3	2,664	...	6	...	15	6	12	90	33·78
	4	3,176	1	1	...	7	9	10	62	19·52
	5	2,266	1	1	...	5	2	7	41	18·09
	6	4,101	...	1	...	18	10	20	95	23·16
	7	4,868	2	4	...	14	10	26	101	23·19
	8	4,354	3	1	...	17	15	31	112	25·72
	R. S.	.....	...	1	...	1	5	2	13	.....
Total ...	...	25,400	10	19	...	85	60	127	612	24·09
Esplanade	1	2,176	...	...	...	5	7	10	55	25·34
	2	1,093	1	1	...	2	3	5	20	18·29
	3	5,298	4	7	...	40	19	41	227	42·84
	4	3,985	...	...	...	4	5	10	41	4·56
	R. S.	.....	...	...	...	10	21	12	94	.....
Total ...	...	17,761	5	8	...	61	55	78	437	24·60
Mandvi	1	3,517	1	3	...	5	10	38	101	28·71
	2	Demolished.	...	...	...	3	5	7	28	.....
	3	1,268	...	1	1	4	6	14	47	37·06
	4	2,845	...	7	...	7	5	20	81	28·47
	5	1,154	...	1	...	1	2	13	31	26·86
	6	5,290	...	1	...	2	4	12	39	7·37
	7	1,694	...	3	...	4	2	18	36	21·26
	8	1,155	...	3	...	...	1	12	30	25·97
	9	3,565	...	4	...	1	6	16	56	16·64
	10	3,498	...	17	...	10	6	27	102	29·15
	11	5,197	...	11	...	11	14	61	150	28·86
	12	1,485	...	3	...	1	3	15	30	20·20
	R. S.	.....	...	2	...	5	8	10	47	.....
Total ...	...	33,302	1	56	1	54	72	258	778	23·43
Chukla	1	2,688	...	5	...	10	9	44	109	40·55
	2	2,848	...	4	...	6	5	19	55	19·31
	3	2,569	...	...	...	3	1	14	43	16·73
	4	4,894	...	1	...	7	18	48	128	26·15
	5	2,619	...	1	..	3	7	39	94	35·89
	6	1,268	1	2	...	4	4	16	50	39·43
	7	2,303	...	2	...	1	6	8	38	15·87
	8	2,212	...	2	...	3	...	18	45	20·34
	9	3,740	...	1	...	7	4	15	68	22·99
	R. S.	.....	...	1	...	3	10	8	33	.....
Total ...	...	24,231	1	19	...	47	64	224	663	27·36

R. S.=Road side.

36—*continued.*

TABLE of Deaths in different Circles from Principal Causes in 1915—*continued.*

SECTION.	Circle No.	Population by the Census of 1911.	Number of Deaths from							Rate of Mortality per 1,000 of population.
			Small pox.	Plague.	Cholera.	Fevers.	Tuberculosis and Phthisis.	Respiratory Diseases.	All Causes.	
Umarkhadi	1	5,654	...	7	...	15	8	49	164	29·00
	2	2,215	1	1	...	...	2	8	28	12·64
	3	4,358	...	1	...	12	18	53	165	37·85
	4	4,319	...	2	...	7	1	9	42	9·72
	5	2,701	...	...	...	8	12	35	138	51·09
	6	2,107	1	1	...	4	2	18	62	29·42
	7	4,621	...	3	...	18	18	57	181	39·16
	8	6,517	2	10	...	13	17	60	197	30·22
	9	5,144	1	5	...	10	7	58	180	34·99
	10	8,043	...	10	...	22	11	85	261	32·45
	R. S.	.....	2	3	...	3	16	17	63	.....
Total ...	...	45,679	7	43	...	112	112	449	1,481	32·42
Dongri	1	6,243	...	7	...	10	...	32	91	14·57
	2	12,131	...	5	...	14	5	59	159	13·10
	3	5,539	...	3	...	6	6	91	169	30·51
	4	2,375	..	...	...	...	2	20	43	18·10
	R. S.	.....	...	2	...	2	9	9	35	.....
Total ...	...	27,246	...	17	...	32	20	211	497	18·24
Market	1	3,967	3	1	...	10	3	22	73	18·40
	2	1,808	4	2	...	5	2	11	37	20·46
	3	1,597	...	...	...	3	5	18	45	28·02
	4	2,395	1	5	..	4	5	20	61	25·46
	5	6,633	...	6	..	12	2	20	84	12·66
	6	4,589	2	2	...	8	1	31	75	16·34
	7	3,611	...	1	...	4	1	8	41	11·35
	8	5,349	...	2	...	8	5	25	75	14·02
	R. S.	...	...	3	...	4	12	7	45	.....
Total ...	...	30,172	10	22	...	58	36	162	534	17·69
Dhobi Talao	1	6,939	11	1	...	9	6	39	168	24·21
	2	4,499	4	1	...	12	4	36	131	29·11
	3	4,932	...	1	...	9	7	41	132	26·76
	4	6,141	6	2	...	11	8	33	121	19·70
	5	3,705	5	2	...	3	5	21	81	21·86
	6	5,733	6	5	1	13	2	30	112	19·54
	7	6,735	11	2	...	8	10	43	146	21·67
	R. S.	...	1	1	...	4	16	11	65	.....
Total ...	...	8,684	44	15	1	69	58	264	956	24·71
Fanaswadi	1	9,324	7	7	...	18	7	63	223	23·91
	2	10,334	9	6	...	13	18	84	261	25·25
	3	7,745	...	2	...	15	8	33	133	17·18
	R. S.	...	...	...	...	...	2	1	6	.....
Total ...	...	27,403	16	15	...	46	35	181	623	22·73
Bhuleshwar	1	5,549	...	6	...	14	6	35	125	22·52
	2	5,466	...	4	...	6	2	21	79	14·45
	3	3,171	1	1	...	4	2	29	64	20·18
	4	10,422	1	3	...	14	10	86	268	25·71
	5	7,224	...	2	...	8	9	67	226	31·28
	6	4,625	...	9	...	5	4	16	61	13·18
	R. S.	...	...	3	...	...	15	20	71	.....
Total ...	...	36,459	2	28	...	51	48	274	894	24·52
Khara Talao	1	3,958		3	...	9	6	26	86	21·72
	2	2,388	...	...	...	7	5	18	82	34·33
	3	6,297	1	...	...	10	19	60	182	28·90
	4	4,548	1	2	...	7	9	35	122	26·82
	5	5,745	...	2	...	9	14	38	173	30·11
	R. S.	...	...	3	...	...	12	6	55	.....
Total ...	...	22,979	3	10	...	42	65	183	700	30·46

R. S.=Road side.

36—*continued.*

TABLE of Deaths in different Circles from Principal Causes in 1915—*continued.*

SECTION.	Circle No.	Population by the Census of 1911.	Number of Deaths from							Rate of Mortality per 1,000 of Population.
			Small-pox.	Plague.	Cholera.	Fevers.	Tuberculosis and Phthisis.	Respiratory Diseases.	All Causes.	
Kumbharwada	1	7,264	1	4	...	3	14	57	161	25·66
	2	10,374	2	5	...	19	28	94	252	24·52
	3	4,914	...	4	...	5	5	37	102	20·75
	4	5,163	3	1	...	9	10	51	131	25·37
	R. S.	...	...	1	.	1	13	6	48	.....
Total ...	..	27,703	6	15	...	37	70	245	694	25·05
Khetwadi	1	2,737	...	1	...	4	1	8	38	13·88
	2	5,468	7	...	...	8	6	33	106	19·38
	3	4,318	4	1	1	15	7	31	112	25·93
	4	2,634	...	...	...	8	10	27	115	43·65
	5	3,574	...	1	...	6	11	32	103	28·81
	6	2,367	1	2	...	3	1	13	42	17·74
	7	4,667	1	2	...	7	14	30	85	18·61
	8	6,269	1	4	1	8	24	51	153	25·20
	R.S.	..	...	...	...	...	10	8	39	.....
Total ...	...	31,937	14	11	2	59	84	233	798	24·98
Girgaum	1	6,126	7	...	...	12	18	34	156	25·46
	2	3,769	4	...	...	6	4	25	78	20·69
	3	5,929	4	1	1	10	7	42	118	19·90
	4	1,123	...	1	...	3	1	8	27	24·04
	5	4,822	4	1	...	11	13	38	128	26·54
	6	6,080	9	2	...	13	16	44	167	27·46
	7	2,862	3	3	1	2	5	14	47	16·42
	R. S.	...	...	...	...	4	7	4	20	.....
Total ...	...	30,779	31	8	2	61	71	209	741	24·07
Chowpati	1	1,272	...	...	...	1	3	6	34	26·72
	2	1,758	3	...	...	3	5	8	41	23·32
	3	1,847	3	1	...	3	5	12	44	23·82
	4	1,618	...	...	...	6	5	9	49	30·28
	5	3,930	2	1	...	...	8	10	49	12·46
	6	944	2	...	...	2	...	...	14	14·83
	R. S.	...	...	1	...	...	...	4	13	.....
Total ...	...	11,397	10	3	...	15	26	49	244	21·40
Walkeshwar	1	1,591	...	...	...	...	3	13	58	33·45
	2	2,132	1	2	.	...	4	13	55	25·79
	3	1,873	...	.	...	1	2	6	22	11·74
	4	272	...	...	...	...	...	4	4	14·70
	5	835	..	...	...	...	...	1	3	3·59
	6	2,694	1	...	..	2	9	16	53	19·67
	7	1,234	...	...	...	1	1	12	26	21·06
	R. S.	.....	...	...	...	...	1	2	8	.....
Total ...	...	10,640	2	2	...	4	20	67	229	21·52
Mahalakshmi...	1	2,595	...	2	...	2	2	8	29	11·17
	2	744	2	...	...	2	...	3	19	25·53
	3	1,056	...	...	...	...	...	5	10	9·45
	4	2,817	1	8	...	2	1	12	52	18·45
	5	2,365	1	7	1	6	6	9	55	23·25
	6	3,856	2	1	...	7	5	11	73	18·93
	7	5,240	10	...	...	10	11	30	104	19.84
	8	3,228	2	4	...	5	9	28	93	28·80
	9	4,401	1	14	...	4	10	29	140	31·81
	R. S.	.....	...	...	...	1	4	3	11	.....
	...	26,302	19	36	1	39	48	138	586	22·27

R. S.=Road side.

36—*continued.*

TABLE of Deaths in different Circles from Principal Causes in 1915—*continued.*

SECTION.	Circle No.	Population by the Census of 1911.	NUMBER OF DEATHS FROM							Rate of Mortality per 1,000 of Population.
			Small-pox.	Plague.	Cholera.	Fevers.	Tuberculosis and Phthisis.	Respiratory Diseases.	All Causes.	
Mazagon	1	4,780	...	1	...	45	5	46	181	37·86
	2	4,057	2	3	...	10	...	18	61	15·03
	3	4,196	...	3	...	17	3	19	81	19·30
	4	4,543	...	1	...	18	2	19	98	21·57
	5	12,488	2	5	...	77	1	90	343	27·46
	R. S.	.....	...	...	...	...	...	...	1	.....
	Total ...	30,075	4	13	...	167	11	192	765	25·43
Tarwadi	1	9,413	6	4	...	67	62	103	617	65·64
	2	3,476	...	2	...	18	2	30	102	29·34
	3	15,524	3	2	...	76	5	95	353	22·73
	R. S.	.....	...	...	...	...	...	...	3	.....
	Total ...	28,424	9	8	...	161	69	228	1,075	37·82
2nd Nagpada	1	6,167	4	3	...	22	16	59	202	32·75
	2	5,788	3	...	...	11	13	52	170	29·37
	3	5,795	1	...	...	14	12	51	180	31·06
	4	3,950	3	...	...	8	5	44	133	33·67
	R. S.	.....	...	...	...	1	13	5	33	.....
	Total ...	21,700	11	3	...	56	59	211	718	33·08
Kamathipura	1	7,859	9	3	...	19	44	55	249	31·68
	2	15,742	7	6	...	42	68	147	473	30·04
	3	13,010	11	7	1	41	49	98	362	27·82
	R. S.	.....	1	...	...	1	10	11	49	.....
	Total ...	36,751	28	16	1	103	171	311	1,133	30·82
Tardeo	1	4,306	1	1	1	6	4	26	93	21·59
	2	7,031	...	3	...	11	10	46	153	21·76
	3	10,386	5	9	...	19	27	85	284	27·34
	4	6,000	1	3	...	19	19	49	171	28·50
	R. S.	.....	...	...	...	1	3	1	20	.....
	Total ...	27,758	7	16	1	56	63	207	721	25·97
Byculla	1	10,722	14	5	...	40	40	210	693	64·21
	2	4,847	2	2	...	5	4	24	112	23·10
	3	15,281	9	2	...	15	12	136	422	27·61
	4	22,104	3	2	...	8	9	103	302	13·66
	5	4,146	...	2	...	4	9	45	129	31·11
	6	5,835	3	1	...	9	4	46	122	20·90
	7	6,280	4	...	...	12	...	40	98	15·60
	8	6,092	4	2	...	10	...	38	124	20·35
	R. S.	.....	2	...	...	2	8	2	29	.....
	Total ...	75,848	41	16	...	105	86	644	2,031	26·95
1st Nagpada	1	3,632	1	1	...	7	1	20	72	19·82
	2	2,782	1	...	...	2	2	22	72	25·88
	R. S.	.....	...	...	...	...	1	3	8	.....
	Total ...	6,414	2	1	...	9	4	45	152	23·69
Parel	1	4,010	...	1	...	12	1	22	65	16·20
	2	5,780	1	...	...	12	2	40	100	17·30
	3	6,916	5	2	1	32	7	37	161	23·27
	4	6,533	1	3	...	18	2	42	132	20·20
	5	830	...	...	...	1	...	2	8	9·63
	6	6,807	...	...	...	9	2	25	81	11·89
	7	4,299	...	...	...	18	1	26	85	19·77
	8	7,322	...	1	...	12	6	55	153	20·89
	9	2,719	1	...	...	12	5	23	95	44·93
	R. S.	.....	...	...	...	1	11	7	40	.....
	Total ...	45,474	8	7	1	127	37	279	920	20·23

R. S.=Road side.

36—*concluded.*

TABLE of Deaths in different Circles from Principal Causes in 1915—*concluded.*

SECTION.	Circle No.	Population by the Census of 1911.	NUMBER OF DEATHS FROM							Rate of Mortality per 1,000 of Population.
			Small-pox.	Plague.	Cholera.	Fevers.	Tuberculosis and Phthisis.	Respiratory Diseases.	All Causes.	
Sewri	1	6,453	6	...	1	24	1	43	133	20·61
	2	3,872	1	2	...	11	...	35	91	23·50
	3	1,869	1	4	...	4	2	14	45	24·07
	4	5,675	...	...	...	7	2	23	86	15·15
	5	1,163	...	...	...	...	...	3	3	2·57
	R. S.	.....	...	...	...	...	1	2	4	.....
Total ...	...	19,067	8	6	1	46	6	120	362	18·98
Sion	1	1,140	1	1	...	8	6	28	81	71·05
	2	1,290	...	1	...	4	2	17	48	37·20
	3	5,124	1	1	...	10	5	28	104	20·29
	4	4,426	3	1	...	11	6	30	113	25·53
	5	2,420	8	1	...	8	1	24	89	36·77
	6	2,992	...	...	...	4	3	19	45	15·04
	7	2,631	...	...	...	11	1	16	120	45·61
	8	3,215	...	...	...	4	1	15	49	15·24
	9	1,148	...	...	...	...	...	2	18	15·67
	10	1,312	...	...	...	1	1	6	21	16·00
	11	1,952	...	...	...	4	2	11	43	22·02
	R. S.	...	...	...	...	...	1	...	7	.....
Total ...	...	30,680	13	5	...	65	29	196	738	24·04
Mahim	1	2,626	...	14	...	7	6	16	74	28·17
	2	3,715	...	...	...	5	2	33	97	26·11
	3	3,440	2	1	...	2	1	20	69	20·05
	4	2,313	...	5	...	1	4	21	68	29·39
	5	5,068	...	1	1	6	9	37	126	24·86
	6	5,825	1	13	...	13	7	42	152	26·09
	7	1,686	...	4	...	3	2	15	44	23·32
	8	5,331	...	...	...	11	3	55	167	31·03
	R. S.	.....	...	1	...	...	...	2	14	.....
Total ...	...	30,492	3	39	1	51	34	241	811	26·59
Worli	1	2,685	...	6	...	5	4	17	71	26·44
	2	10,764	2	1	1	38	17	100	298	27·68
	3	9,190	7	...	...	25	11	42	168	18·28
	4	4,812	2	...	...	10	5	19	76	15·78
	5	13,327	1	2	...	30	15	86	279	20·93
	6	5,866	...	8	...	9	4	37	129	21·99
	7	17,412	4	14	...	39	25	90	362	20·79
	8	25,400	14	27	...	46	42	190	635	25·00
	R. S.	.....	...	...	1	...	1	1	16	.....
Total ...	...	89,611	30	58	2	202	124	582	2,034	22·69
Harbour, Docks, Railways & Homeless.	...	44,979	9	1	2	13	9	16	112	2·49
Grand Total ...	...	9,79,145	359	599	16	2,091	1,710	6,770	23,681	24·17

R. S.=Road side.

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